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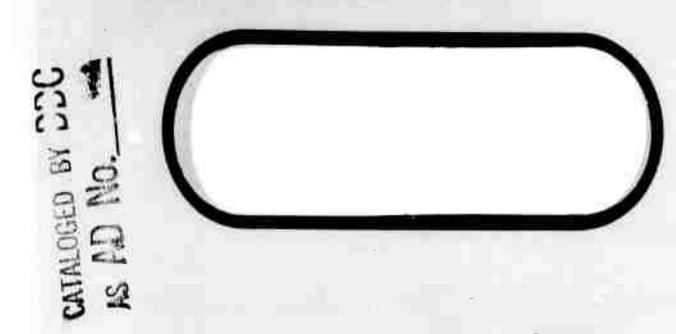
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FOREWORD

This document lists The Boeing Company and its major subcontractor documentation released since April 1960 on the X-20 Program. Boeing documents are enumerated by functional organization in numerical order. Subcontractor documents are listed by company in numerical order except for Sundstrand Corporation documentation which is listed by subject with pertinent documents indicated for each.

No reference is included to documentation prepared by suppliers other than those listed above.

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	DOCUMENT TITLE	Data Report, Dyna Soar Real Gas Tests in the AVCO 4.0 inch Diameter Shock Tube Released 6-20-61	CANCELLED	This document has not as yet been transmitted to the Air Force	A Base Heating and Visual Study of the AD-563M-1 Released 2-21-62	CANCELLED	Data Report Boeing Supersonic Wind Tunnel Test No. 043 Released 7-31-61	Data Report, Ohio State University Heat Transfer and Static Pressure Fest of AD-496M-3 Released 8-16-51	7-25-63
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spo #73 D2-8147	Preliminary Ground Wind Induced Oscillation Test, Dyna-Soar Released 8-30-61	υ	. ×					×				~
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SPO #75	Data Report, ARC-AEDC Tunnel A											
SPO #76	No report to be released											<u>. </u>
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mic c x x x x x x x x x x x x x x x x x x	Data Report, Jet Propulsion Lab- oratory Test No. 21-38 Hypersonic Pressure Test of AD-4821-1. Released 8-11-61
	Data Report Jet Propulsion Lab- oratory Test No. 21-44, Hypersonic Control Effectiveness Test of AD- 4821-7 Released 8-23-61

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	Data Report AEDC-B-BAC-llu Six Component Force Test on Model AD-4901-1. Released 2-10-61.
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	DOCUMENT NUMBER AND CRIDINATOR	SPO #86 D2-81.60	spo #87 D2-80291	spo #88 D2-80032	spo #89 112-80060	SPO #90 D2-8142	

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	DOCUMENT TITLE	Data Report, Bosing Transonic Wind Tunnel Test No. 700. Force and Hinge Moment Test on Dyna Soar Model AD-6001-1 Released 6-28-62		Data Report BTWI 685. A Transomic Test of the Dyna Soar Glider Released 3-6-62	Data Report BTWT 672. A Transonic Speed Test of the Dyna Soar Glider Released 2-21-62	Data Report BEAT 105 Supersonic Force, Stability and Control Test of a .0665 Scale Model of the 844-2050 (Rov. B) Dyna Soar Glider Released 11-22-61	
	DOCUFENT NUMBER AND CRIGINATOR	SPO #163 D2-80572	SPO #103 D2-80629	SPO 4/103 D2-80460	SPO #103 D2-80494	SPO #10h D2-80347	

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	DOCUMENT NUMBER AND CRIGINATOR	D2-80391 Volumes I	D2-80431	D2-80489	D2-80500	D2-80537	D2-80644	D2-80666	D2-80715	D2-80738	D2-86749 .80744	D2-80763

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	DOCUMENT TITLE	Memufacturing Budget and Cost Collection Plan - X-20 Program	Wichita Division Support to X-20 Manufacturing	Wichita Finance Director Service Assist to Acro-Space Manufacturing X-20	Master Schedules Document	Chemical Milled Circuitry Fabrication Process and Techniques	Assembly of Chem Milled Circust Modules Containing Tvo, Three and Four Foils	X-20 Test Specimens Requirements	X-20 Manufacturing Status through 12-15-63
	DOCUMENT MINERAL AND ON DELIVERATOR	D2-80835	D2-80840	D2-80874	90608-80	De-8098e-1	D2-80982-2	D2-80995	D2- 81257

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	Document title	Make-or-Buy Plan Dyna-Soar Program	Beliability Plan	X-20 Quarterly Summary Progress Reports	Associate Contractor Relationship Between Boeing and Martin Baltimore	Glossary of Terms	Associate Contractor Relationship Between Boeing and Minneapolis- Honeywell	Associate Contractor Relationship Between Boeing and RCA	X-20 (Dyna-Soar) Sumary	Step I Variance and Schedule Report	GPT and GPAE Document	Dyna-Scar Program Control Room Secur y And Instruction Manual
	DOCUMENT NUMBER AND CRIGINATOR	D2-5697-3	D2-5697-4	D2-7326-1 thru -21	D2-7426	D2-8066	D2-8203	D2-8205	D2-80340	D2-80360	D2-80489	D2-80557

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	DOCUMENT TITLE	Work Order and Sub Number(s) for Program Elements Dyna-Soar Program	X-20 didder Secondary Power Bay Class I Mock-up 9-5-62	Presentation to Scientific Advisory Board 8-8-62	X-20 Change Processing Namel	Pilot Oriented Dyna-Soar Designs	PERC in Progress Activity Review	Data Acquired on Boeing Simulators with X-20 Pilots	Summary of X-20 Development Design Test and Fabrication of Hardware		
-	DOCUMENT NUMBER AND CRIGINATOR	D2-80575	D2-80739	D2-80741	D2-80878	D2-80928	D2-81135	D2-81256	D2-81262		

AIRESEARCH MANUFACTURING COMPANY DOCUMENTS 2.0 (Hydrogen Cooling Equipment) U3 4288 2000 REV. 8/62 ANTEINE NO. DE-87 268 PEV SYM_

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	DOCUMENT TITLE	RELEASE DATE
DS-1-MR	First Weekly Progress Report	May 19, 1961
DS-2-R	Evaluation of Helium as Heat Transport Fluid	May 26, 1961
DS-3-R	Transport Fluid Study	June 4, 1961
DS-4-MR Sec	Second Weekly Progress Report	June 1, 1961
DS-5-MR	Third Weekly Progress Report	June 6, 1961
D3-6-R	Item 1B Hydrogen-Glycol Heat Exchanger Study	June 9, 1961
DS-7-MR	Fourth Weekly Progress Report	June 9, 1961
DS-8-MR	Pifth Weekly Progress Seport	June 16, 1961
DS-9-MR	Sixth Weekly Progress Report	June 23, 1961
DS-10-R	Davelopment Plan	June 22, 1961 Rev. Pebruary 6, 1963
DS-11-MR Sev	Seventh Weekly Progress Report	June 30, 1961
DS-12-R Ite	Item 1C Controls Analysis	July 15, 1961
DS-13-MR E1g	Eighth Weekly Progress Report	July 8, 1961
DS-14-R Dev	Develorment Test Procedure, Experimental Clycol Cooler	July 21, 1961

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DOCUMENT NUMBER	DOCUMENT TITLE	RELEASE DATE
1	The state of the s	August 7, 1961
X-12-K	Volume I, Part 2, Program Plan	August 7, 1961
	Volume II	Rev. November 1, 1901 August 7, 1961 Rev. February 14, 196
DS-16-R	Organization Plan	August 7, 1961
DS-17-R	Reliability Flan	August 7, 1961
DS-18-R	Support Plen	August 7, 1961 Rev. February 2, 1962
DS-19-WR	Minth Weekly Progress Report	July 14, 1961
DS-20-MS	Spec Review, DI-8000, Quality Control Requirements	July 27, 1961
DS-21-MR	Spec Review, BAC 5132, Bonding and Grounding	July 27, 1961
DS-22-MR	Spec Review, Program Evaluation Procedure	July 27, 1961
DS-23-MR	Spec Review, D2-7486, Electronic Parts	July 27, 1961
DS-24-MR	Spec Review, D2-8391, Electronic Power Characteristics	July 27, 1961
DS-25-MR	Spec Review, D2-7481, Electronic Packaging	July 27, 1961 Rev. September 19, 1961
DS-26-MR	Spec Review, DS-MED 207, Integrated Record System	July 27, 1961

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DOCUMENT NUMBER	BER DOCUMENT TITLE	RELEASE DATE
DS-27-MR	Spec Review, D2-4819, Reliability Guide	July 27, 1961
DS-28-MR	Spec Review, BAC 5052, Soldering Electrical Connections	July 27, 1961
DS-29-MR	Spec Review, BAC 5130, Missile Wiring	July 27, 1961
DS-30-MR	Spec Review, IM 1011, Subcontractor Required Reports	July 27, 1961
DS-31-MR	Spec Review, D2-7792, Motion Picture Reports	July 27, 1961
DS-32-MR	Spec Review, BAC 5104, Electric Wire Terminals	July 27, 1961
DS-33-MR	Spec Review, BAC 5131, Terminals, Splices, Connectors	July 27, 1961
DS-34-MR	Spec Review, IM 1027, Administrative Guide	July 27, 1961
DS-35-MR	Spec Review, D2-6558, General Requirements Supplement	July 27, 1961
DS-36-MR	Spec Review, 10-20917, Source Control Drawing	July 27, 1961
DS-37-MR	Spec Review, 10-20902, Generator and Controls Unit, A C	July 27, 1961
DS-38-MR	Spec Review, D2-8047, Integrated H2 Cooling and Secondary Power Subsystem	July 27, 1961
DS-40-MR	Spec Review, 10-20917, Rev. B	July 27, 1961
DS-41-R	Freezing Characteristics of H2- Glycol Heat Exchanger	July 13, 1961
DS-42-R	Safety Analysis	September 7, 1961 Rev. March 22, 1962
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MAJOR SUBCONTRACTOR AIRESEARCH MANUFACTURING COMPANY	DOCUMENT TITLE
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DOCUMENT NUMBER	DOCUMENT TITE	RELEASE DATE
DS-43-R	Numerical Reliability Analysis	August 16, 1961 Rev. April 23, 1962
DS-44-MR	Comment on Preliminary Outline Drawings	November 7, 1962
DS-45-R	Pump Unit Study, Initial Design and Development Studies	July 29, 1961
DS-46-MR	Tenth Weekly Progress Report	July 21, 1961
DS-47-MR	Eleventh Weekly Progress Report	July 29, 1961
DS-48-MR	Cooling Units Fans Study, Initial Design and Development Studies	August 13, 1961 Rev. December 28, 1961
DS-49-MR	Twelfth Weekly Progress Report	August 4, 1961
DS-50-MR	Thirteenth Venkly Progress Report	August 16, 1961
DS-51-MR	Fourteenth Weekly Progress Report	August 18, 1961
DS-52-MR	Re-evaluation of Pump Study	August 22, 1961
DS-53-R	Volume I, Technical Proposal, Rydrogen Tank Pressurization	September 19, 1961
	Volume II, Cost Proposal	October 12, 1961 Rev. February 14, 1962
DS-54-R	Design Concepts for Reliability	August 31, 1961 Rev. March 30, 1969

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DOCUMENT NUMBER	DOCUMENT TITLE	RELEASE DATE
DS-55-MR	Fifteenth Weekly Progress Report	August 25, 1961
DS-56-R	Description of Preliminary Development Tests per Letter Order 2-043053-9554, Exhibit A, July 25, 1961	September 7, 1961
DS-57-MR	dixteenth Veekly Progress Report	Sept=ber 1, 1961
DS-58-R	Re-evaluation of Pump Unit Study	September 15, 1961
DS-59-MR	Seventeenth Veekly Progress Report	September 8, 1961
DS-60-MR	Eightsenth Weekly Progress Seport	September 15, 1961
DS-61-MR	Mineteenth Weekly Progress Report	September 22, 1961
DS-62-MR	Twentieth Weekly Progress Report	September 23, 1961
DS-63-R	Primary Glycol-Water Cooler Configuration Selection Study	December 11, 1961
DS-64-R	Failure Analysis	January 6, 1962 Rev. March 30, 1962
DS-65-R	Test Briefs, Preliminary Development Tests	October 25, 1961
DS-66-R	Analytical Study, Hydraulic Fluid Cooling Unit	October 26, 1961
DS-67-R	Olycol Reservoir Volume Study	November 13, 1961
DS-68-R	First Monthly Progress Report - 11-61	November 4, 1961
DS-69-R	First Monthly Weight and Balance Report	November 7, 1961

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	MAJOR SUBCONTRACTOR AIRESEARCH MANUFACTURING COMPANY	≻ .
DOCUMENT NUMBER	DOCUMENT TITLE	RELEASE DATE
DS-70-MR	Second Monthly Weight and Balance Report	November 20, 1961
DS-71-R	Second Monthly Progress Report (November 1961)	December 6, 1961
DS-72-R	Third Monthly Weight and Balance Report	December 21, 1961
DS-73-R	Third Monthly Progress Report - 12-61	January 5, 1962
DS-74-R	Dynamic Analysis Data	January 19, 1962
DS-75-R	Preliminary Development Heat Transfer and Pressure Drop Test, Blycol-Water Primary Cooler	February 2, 1962
DS-76-R	Preliminary Development Test, Basic Heat Transfer Data, Cryogenic Heater Equipment Presents Single-Tube, Cryogenic H ₂ Data	January 18, 1962
DS-77-R	Preliminary Development Test, Performance Characteristics of Thermostatic Power Element, Compartment Cooler 178380 and 178390	February 2, 1962
DS-79-R	Estimate of Glycol Flows, Temperatures, and Pressures at Extremes of Heat Load	January 6, 1962
DS-80-R	Technical Proposal, Dyna-Soar Pilot and Equipment Compartment Pressurization Controls	January 27, 1962
	Amendment 1	April 11, 1962
	Amendment 2	June 18, 1962
DS-81-R	Monthly Weight and Balance Report - Revised each month	
DS-82-R	Fourth Monthly Progress Report - 1-62	February 6, 1962

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March 30, 1962 Rev. April 11, 1962 February 23, 1962 February 23, 1962 January 31, 1962 RELEASE DATE March 27, 1962 March 3, 1962 June 14, 1962 May 14, 1962 April 6, 1962 May 17, 1962 May 13, 1962 May 4, 1962 MAJOR SUBCONTRACTOR AIRESEARCH MANUFACTURING COMPANY Development Test, Performance Characteristics of Thermostatic Power Element, Compartment Coolers 178380 and 178390 Presentation, Integrated Cooling System Technical highlights of proposed APU Cooling System Combination Integrated Auxiliary Power and Cooling System - Proposes APU combined with Cooling System Hydrogen Tankage Pressure Controls Proposes dual cryogenic boost pumps, dual recirculation fans, dual hydrogen pressure regulating valves (including flow limiting valves, dual relief valves, check valves) Preliminary Development Test, Control Characteristics of the Thermostatic Power Element, Glycol Cooler 179140-1 Density of Aqueous Ethylene Glycol Solutions (Inhibited) per Military Specification MIL-E-5900 Estimate of Glycol Flows Temperatures and Pressures at Extremes of Heat Load DOCUMENT TITLE Seventh Monthly Progress Report - 4-62 Eighth Monthly Progress Report - 5-62 Fifth Monthly Progress Report - 2-62 Sixth Monthly Progress Report - 3-62 Viscosity of Ethylene Glycol Solutions Maintenance Analysis DOCUMENT NUMBER DS-86-C1 DS-87-C1 DS-88-R DS-89-R DS-90-R DS-84-R DS-91-R DS-96-R DS-83-R DS-92-R DS-93-R DS-94-R DS-95-R

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DOCUMENT NUMBER	DOCUMENT TITLE	RELEASE DATE
DS-98-R	Development Test, Pressure and Dielectric Test, Motor Stator Housing, Glycol-Water Pump Unit 178410	September 29, 1962
DS-100-R	Qualification Test Description	May 14, 1962
DS-101-R	Development Test, Sampler Temperature Stratification, Pilot and Equipment Compartment Cooler Units 178380 and 178390	May 9, 1962
DS-104-R	Development Test, Cycling, Accumulator X680434, Glycol-Water Pump Unit 178410	June 6, 1962
	Supplement I (with smaller diameter spring, modi- fied spring retainers, etc.)	December 21, 1962
DS-106-R	Ninth Monthly Progress Report - 6-62	July 17, 1962
DS-107-C1	Performance Curves, Fan Motor 207767, Equipment Compartment Cooler	July 17, 1962
DS-108-C1	Performance Curves, Fan Motor 107762, Pilot Compartment Cooler	July 17, 1962
DS-109-R	Analysis Report, Integrated Cooling System Study requested by Boeing Letters 2-4454-4-780 and 2-4454-4-915 Includes change to electronic controls	July 21, 1962
DS-110-MR	Description of System Test Setup, Non-Cryogenic Loop	July 23, 1962
DS-112-R	Tenth Monthly Progress Report - 7-1962	August 20, 1962
DS-113-R DS-114-R	Specification for Simulated X-20 Hydrogen Tank	August 8, 1962 Rev. August 27, 1963
2-514		Rev. August 22, 1962

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DOCUMENT NUMBER	ER DOCUMENT TITLE	RELEASE DATE
DS-115-R	Startup and Shutdown Procedures This was first startup procedure, not the one submitted with the breadboard -8 package (see DS-149-R)	August 22, 1962 Rev. August 22, 1962
DS-116-R	Corrosion Studies of Ethylene Glycol-Water Solutions Inhibited in accordance with 10-20917, Rev. G	August 20, 1962
DS-117-MR	Performance Tests, Primary Glycol Cooler PA 37521	August 21, 1962
DS-118-MR	Testing of the X-20 System, Non-Cryogenic Loop	August 22, 1962
DS-120-MR	Additives for Reducing the Viscosity of Ethylene Glycol Water Solution at Low Temperature	August 28, 1962
DS-121-R	Eleventh Monthly Progress Report - 8-1962.	September 8, 1962
DS-122-R	Development Test, Vibration, Glycol Dual Pump Unit 178410	June 19, 1963
DS-123-R	Development Test, Pressure Cycling, Hydraulic Fluid Cooling Unit 154910	August 8, 1963
DS-124-MR	(Curve) Required Performance Hydraulic Oil Cooler 154910 Fluid Temps and Heat Load vs Percent Elapsed Mission Time	October 31, 1962
DS-125-MR	(Curve) Estimated nohA for Pilot Compartment Cryogenic Heat Exchangers	September 12, 1962
DS-126-MR	Development Test, Radio Interference, Glycol-Dual Pump 178410	August 8, 1963
DS-127-R	Development Test, Crash Shock Hydraulic Fluid Cooling Unit 154910	March 11, 1963
DS-129-R	Twelfth Monthly Progress Report - 9-1962	October 19, 1962

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	DOCUMENT NUMBER	RELEASE DATE
DS-130-MR	Acceptance Test Procedure for the 154910-1-1 Hydraulic Fluid Cooler	October 19, 1962
DS-131-MR	Acceptance Test Procedure for the 178410 Pump Unit, Glycol, Power Driven	October 19, 1962
DS-132-R	Cryogenic Heat Exchanger Dew Point Test 10-20917 Compartment Cooler	October 15, 1962
DS-133-R	Development Test, Crash Shock, Glycol Dual Pump Assembly 178410	March 11, 1963
DS-134-R	Thirteenth Monthly Progress Report - 10-1962	November 12, 1962
DS-135-MR	Reply to Boeing Letter on Seventh and Eigh Monthly Progress Reports	November 15, 1962
DS-136-R	Fourteenth Monthly Progress Report - 11-1962	December 17, 1962
DS-137-R	Development Test, Performance, Glycol Dual Pump 178410	April 11, 1963
DS-138-R	Development Test, Performance, Mixing Manifold	January 25, 1963
DS-139-R	Fifteenth Monthly Progress Report - 12-1962	February 5, 1963
DS-140-MR	Test Report Format	February 15, 1963
DS-141-R	Development Test, Performance, Glycol-to-Hydrogen Heat Exchanger	March 15, 1963
DS-142-R	Development Test, Performance and Response, Primary Recirculation Loop	January 25, 1963

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DOCUMENT NUMBER	DOCUMENT TITE	The Charles of the Control of the Co
DS-143-R	Development Test, Calibration, Hydrogen Flow Control 393422-1	1422-1 January 25, 1963
DS-144-R	Development Test, Calibration, Glycol Temperature Regulating Valve 154692	ting January 18, 1963
DS-145-R	Development Test, Calibration, Clycol Temperature Controller	oller March 8, 1963
DS-146-R	Development Test, Heat Load Transients, Breadboard -8	February 9, 1963
DS-147-R	Development Test, Flow Transients, Breadboard - 8	March 11, 1963
DS-148-R	Development Test, Flow Stability, Differential Pressure Regulator 393404-1 -1	March 15, 1963
DS-149-R	Operating Instructions for Breadboard-8	February 5, 1963
DS-150-MR	Engineering Comments on Boeing Source Control Drawing 10-81025 as Applied to AiResearch Pressure Regulator 102496-1-1 and 102542-1-1 and Safety Valves 103300-1-1 and 103302-1-1 for the Dyna-Soar Glider	498-1-1 -1 for
DS-151-R	Operating instructions for AiResearch Dual Recirculation Compresser and Check Valve Assembly, Outline No. 178573-1	Som- March 26, 1963
DS-152-R	Operating Instructions for AiResearch Hydrogen Tank Pressuri- zation Fan Assembly Outline No. 207907-1	muri- March 26, 1963
DS-153	Development Test Calibration and Response Rate, Hydraulic Fluie Cooling Unit 154910	ic July 15, 1963
DS-154-R	Sixteenth Monthly Progress Report - Jan. and Feb. 1963	March 22, 1963
DS-155	Development Test, Performance, Pilot Compartment Cooling, Unit Fan Motor 207762	ing: April 29, 1963

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Twentieth Monthly Progress Report - 6-1963

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DS-169 Development Test Hydraulic Fluid Transient, Hydraulic Fluid Conling that 154910 DS-172 Transty-First Monthly Progress Report (July 1963) DS-173 Development Test Functional and Pressure Drop Fluid Temperature Cetober 25, 1963 DS-174 Development Test Functional and Pressure Drop Fluid Temperature Cetober 25, 1963 DS-175 Open Loop Characteristics of Glycol Temperature Control 179140 California California Pressure Control 179140 DS-175 California Pressure Report (July 1962) DS-177 Sent and Estal High Temperature and California and Vibration November 27, 1963 DS-177 Sent and Estal High, Low Temperature and California Development Test Refrogen Pressure Control 179140 DS-201 Development Test California and Pressuriantion Endiance Caragnetic Research Research Control 179140 DS-202 Development Test California and Pressuriant Control 179140 DS-203 Development Test California and Preformance Caragnetic Risectic Revember 15, 1963 DS-204 Development Test California and Pressuriantion Pension Research Research Control 179140 DS-205 Development Test Squipment Comparature and Rydrogen Pressure Control 179140 DS-206 Development Test Squipment Comparature and Rydrogen Pressure Control 179140 DS-207 Development Test State Test Control 179140 DS-208 Repressure and Mydrogen Pressure Control 179140 DS-2096 Repressure and Mydrogen Pressure Control 179140 DS-2096 Repressure Control 179140 DS-2096 Repressure Control 179140	DOCUMENT NUMBER	DOCUMENT TITLE	RELEASE DATE
Trenty-First Monthly Progress Report (July 1963) Development Test Punctional and Pressure Drop Filot Temperature Regulating Valve 194706 Problem Statement for a Gryogenic Rydrogen Acceleration Test Tank Open Loop Characteristics of Glycol Temperature Controller, Glycol Temperature Controller, Green Loop Characteristics of Glycol Temperature Controller, Glycol Temperature and Rydrogen Pressure Control 179140 Calibration, Performance, High Temperature, and Vibration Development Tests Rydrogen Flow Control 393422-1 Seat and Seal High, Low Temperature and Calibration Development Tests Bydrogen Check Valve 193802-1-1 Development Test Dual Pressurisation Tensure Control 179140 Development Test Pressure Drop Dual Pressurisation Rest Rochanger and Check Valve Glycol Temperature and Hydrogen Pressure Control 179140 Development Test Starting Transfent Pressuriation Fan Glycol Temperature and Hydrogen Pressure Control 179140 Proposed Acceleration Test Plan Glycol Temperature and Mydrogen Pressure Control 179140	DS-169	100	July 12, 1963
Problem Statement for a Gryogenic Rydrogen Acceleration Test Tank Gen Loop Characteristics of Chycol Temperature Controller, Chycol Temperature and Rydrogen Pressure Control 179140 Calibration, Performance, High Temperature, and Vibration Development Tests Rydrogen Plov Control 3934g2-1 Seat and Seal High, Low Temperature and Calibration Development Tests Rydrogen Check Valve 39380g-1-1 Development Test Dual Pressurisation Fun Check Valve Leakage Clycol Temperature and Hydrogen Pressure Control 179140 Levelopment Test Cycling and Performance Cryogenic Electric Heating System Equipment Compartment Cooling Unit 178390 Development Test Pressure Dual Pressuriantion Restrict Rochanger and Check Valve Clycol Temperature and Hydrogen Pressure Control 179140 Development Test Starting Transfent Pressuriantion Fun Clycol Temperature and Hydrogen Pressure Control 179140 Proposed Acceleration Fest Plan Glycol Temperature and Hydrogen Hydrogen Pressure Control 179140	DS-172		September 4, 1963
Problem Statement for a Gryogenic Eddrogen Acceleration Test Tank Open Loop Characteristics of Glycol Temperature Controller, Olycol Temperature and Eydrogen Pressure Control 179160 Calibration, Performance, High Temperature, and Vibration Development Tests Hydrogen Flow Control 3934gg-1 Seat and Seal High, Low Temperature and Calibration Development Tests Hydrogen Check Valve 39380g-1-1 Development Test Dual Pressurisation Tan Check Valve Leakage Glycol Temperature and Hydrogen Pressure Control 179140 Development Test Cycling and Performance Cryogenic Electric Heating System Equipment Compartment Cooling Unit 178390 Development Test Examine Drop Dual Pressuriantion Seat Exchanger and Check Valve Glycol Temperature and Hydrogen Pressure Control 179140 Development Test Starting Transfent Pressuriantion Fun Glycol Temperature and Hydrogen Pressure Control 179140 Proposed Acceleration Test Plan Glycol Temperature and Nydrogen Pressure Control 179140	DS-173	Development Test Functional and Pressure Drop Pilot Temperature Regulating Valve 154706	Ortober 25, 1963
Open Loop Oberacteristics of Glycol Temperature Controller, Glycol Temperature and Eydrogen Pressure Control 179140 Calibration, Performance, High Temperature, and Vibration Development Tests Rydrogen Flow Centrol 393492-1 Seat and Seal High, Low Temperature and Calibration Development Tests Rydrogen Flow 393802-1-1 Development Test Daal Pressurisation Fun Check Valve Leakage Glycol Temperature and Hydrogen Fressure Control 179340 Development Test Cycling and Performance Cryugenic Electric Heating System Equipment Compartment Cooling Unit 178390 Development Test Pressure Drop Daal Pressurization Restrict Exchanger and Ghack Valve Glycol Temperature and Hydrogen Development Test Starting Transfent Pressurization Fun Glycol Temperature and Hydrogen Pressure Control 179140 Froposed Acceleration Test Flan Glycol Temperature and Hydrogen Pressure Control 179140 Froposed Acceleration Test Flan Glycol Temperature and Hydrogen Fressure Control 179140	DS-174	Problem Statement for a Gryogenic Rydrogen Acceleration Test Tank	August 22, 1963
Calibration, Performance, High Temperature, and Vibration Development Tests Rydrogen Flow Control 3934g2-1 Seat and Seal High, Low Temperature and Calibration Development Tests Hydrogen Check Valve 39380g-1-1 Development Test Dual Pressurization Fan Check Valve Leakage Glycol Temperature and Hydrogen Pressure Control 179340 Development Test Cycling and Performance Crymgenic Electric Hasting System Equipment Compartment Cooling Unit 178390 Development Test Pressure Drop Dual Pressurisation Heat Exchanger and Check Valve Glycol Temperature and Hydrogen Pressure Control 179340 Development Test Starting Transfent Pressurization Fan Glycol Temperature and Hydrogen Fressure Control 179340 Proposed Acceleration Test Plan Glycol Temperature and Nydrogen Pressure Control 179340	DS-175	Open Loop Characteristics of Clycol Temperature Controller, Clycol Temperature and Hydrogen Pressure Control 179140	October 1, 1963
Seat and Seal High, Low Temperature and Calibration Development Tests Hydrogen Check Valve 393802-1-1 Development Test Dual Pressuriaation Fan Check Valve Leakage Glycol Temperature and Hydrogen Pressure Control 179140 Development Test Cycling and Performance Cryngenic Electric Hasting System Equipment Compartment Cooling Unit 178390 Development Test Pressure Drop Dual Pressuriaation Heat Exchanger and Check Valve Glycol Temperature and Hydrogen Pressure Control 179140 Development Test Starting Transfent Pressuriaation Fan Glycol Temperature and Hydrogen Pressure Control 179140 Froposed Acceleration Test Plan Glycol Temperature and Nydrogen Pressure Control 179140	DS-176	Calibration, Performance, High Temperature, and Vibration Development Tests Rydrogen Flow Centrol 393422-1	March 26, 1963
Development Test Dual Pressurization Fun Check Valve Leakage Glycol Temperature and Hydrogen Pressure Control 179140 Development Test Cycling and Performance Cryugenic Electric Hasting System Equipment Compartment Cocling Unit 178390 Development Test Pressure Drop Dual Pressurization Seat Exchanger and Check Valve Glycol Temperature and Hydrogen Pressure Control 179140 Development Test Starting Transfent Pressurization Fun Glycol Temperature and Hydrogen Pressure Control 179140 Froposed Acceleration Test Plan Glycol Temperature and Hydrogen Pressure Control 179140	DS-177	Seat and Seal High, Low Temperature and Calibration Development Tests Hydrogen Check Valve 393802-1-1	November 27, 1963
Development Test Cycling and Purformance Cryugenic Electric Heating System Equipment Compartment Cooling Unit 178390 Development Test Pressure Drop Dual Pressurination Heat Exchanger and Check Valve Glycol Temperature and Hydrogen Pressure Control 179140 Development Test Starting Transfent Pressurination Fun Glycol Temperature and Hydrogen Pressure Control 179140 Proposed Acceleration Test Plan Glycol Temperature and Nydrogen Pressure Control 179140 September 4,	DS-201	Development Test Dual Pressurisation Fan Check Valve Leakage Glycol Temperature and Mydrogen Fressure Control 179140	November 15, 1963
Development Test Pressure Drop Dual Pressurination Heat Exchanger and Check Valve Glycol Temperature and Hydrogen Pressure Control 179140 Development Test Starting Transfent Pressurization Fan Glycol Temperature and Hydrogen Pressure Control 179140 Proposed Acceleration Test Plan Glycol Temperature and Nydrogen Pressure Control 179140	DS-202	Development Test Cycling and Performance Crysgenic Electric Heating System Equipment Compartment Cooling Unit 178390	
Development Test Starting Transfent Pressurization Fun Glycol November 15, Temperature and Hydrogen Pressure Control 179140 Proposed Acceleration Test Plan Glycol Temperature and September 4, Nydrogen Pressure Control 179140	DS-203	Development Test Pressure Drop Dual Pressurization Seat Exchanger and Check Valve Clycol Temperature and Hydrogen Pressure Control 179140	November 15, 1963
Proposed Acceleration Test Plan Glycol Temperature and Mydrogen Pressure Control 179140	DS-204	Development Test Starting Transfent Pressurization Fun Glycol Temperature and Hydrogen Pressure Control 179140	November 15, 1963
	DS-2054R	Proposed Acceleration Test Plan Glycol Temperature and Mydrogen Pressure Control 179140	September 4, 1963

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	MAJOR SUBCONTRACTOR AIRESEARCH MANUFACTURING COMPANY	⊁.
DOCUMENT NUMBER	DOCUMENT TITLE	RELEASE DATE
DS-206	Twenty-Second Monthly Progress Report - 8-1963	September 18, 1963
DS-207	Development Test Performance Equipment Compartment Glycol Heat Exchanger 178635	January 14, 1964
DS-208	Development Test Vibration Glycol Temperature Regulating Valve 154705-2 Equipment Compartment Cooling Unit	October 17, 1963
DS-210	Development Vibration Test Hydraulic Fluid Cooling Unit	December 30, 1963
DS-211	Development Test Performance and Cycling Fan Overtemperature Switch Compartment Coolers 178380, 178390	October 22, 1963
DS-212	Data Sheets for Pilot Compartment Cooling Unit Qual Test	October 25, 1963
DS-213	Data Sheets for Equipment Compartment Cooling Unit Qual Test	October 25, 1963
DS-214	Data Sheets for Hydraulic Fluid Gooling Unit Qual Test	October 4, 1963 and
DS-215	Data Sheets for Glycol Dual Pump Unit Qual Test	
DS-216	Data Sheets for Glycol Temperature and Hydrogen Pressure Control Qual Test	October 31, 1963
DS-218	TwentyThird Progress Report - 9-1963	October 31, 1963
DS-219	Development Test Performance Pilot Compartment Glycol Heat Exchanger Core 178702	November 1, 1963
DS-220	Development Test Performance Hydraulic Fluid Cooling Unit (7 Baffle)	November 15, 1963

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	MAJOR SUBCONTRACTOR AIRESEARCH MANUFACTURING COMPANY	Į.
DOCUMENT NUMBER	DOCUMENT TITLE	RELEASE DATE
DS-223	Development Test - Performance Motor Assembly as used in Recirculation Compressor 605120 A Component of Glycol Temperature and Hydrogen Pressure Control 179140, Boeing Part 10-20917-8	January 6, 1964
DS-233	Twenty-Fourth Progress Report - 10-1963	November 13, 1963
DS-234	Development Functional and Pressure Drop Test Glycol Flow Indicator 179122. Used on Pilot Compartment Cooling Unit 178380 and Boeing X-20 Dyna-Soar Part 209173	January 10, 1964
DS-238	Minutes of Preliminary CDR Stress Analysis -8 Package	December 15, 1963
DS-239	Minutes of Preliminary CDR Electronics Package -8 Package	December 15, 1963
DS-240	Summary and Results of Preliminary CDR Electronics Circuitry -8 Package	December 15, 1963
DS-243	Starting Transient Test Equipment Compartment Fan 605100	January 6, 1964
DS-244	Development 500-Hour Endurance Test Recirculation Compressor 605151 Used on Glycol Temperature and Hydrogen Pressure Control Unit 179140	January 24, 1964
DS-245	Twenty-Fifth Monthly Progress Report Hydrogen Cooling Equipments Boeing X-20 (Dyna-Soar) Month of November 1963	December 11, 1963
DS-246	Oualification Inspection and Weight Tests Hydraulic Fluid Cooling Unit 154910-1 Boeing X-20 (Dyna-Soar) Part 20917-4	January 24, 1964
DS-247	Development Life Test Glycol Dual Pump Unit 178410	January 7, 1964
DS-248	Development Pressure and Temperature Glycol Dual Pump Unit 178410	January 13, 1964

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Development Performance Test Notor for 605090-1 Pressurization Pan Glycol Temperature and Hydrogen Pressure Control 179140 Development Aerodynamic Performance Fressurisation Fan 605090 Dual Pressuritation Exchanger and Fan 179500 Development Performance Test, Glycol Temperature and Hydrogen Pressure Control 179140 Development Performance Pilot Gryogenic Heater Blanket Pilot Compartment Cooling Unit 178380 Status of Aydrogen Cooling Equipment, X-20 Dyna-Soar, As of the Stop Work Order Date December 15, 1963 Development Performance Test, Dual Presentization Heat Exchanger and Fam Assembly, Olynci Temperature and Hydrogen Pressure Control 179140 Development Test, Accumulator Pressure, Accumulator M680434 Glycol-Mater Pump Unit AIRESEARCH MANUFACTURING COMPANY Development Endurance Test, Glycol Temperature Regulating Development 500-hour Endurance Test, Pilot Compartment Fan 207763, Pilot Compartment Cooling Unit 178380 Development Test, Losding and Precharge Determination, Accumulator X580434, Glycol-Mater Pump Unit 178410 DOCUMENT TITLE MAJOR SUBCONTRACTOR __ VALVE 154575 DOCUMENT NUMBER D8-705-R DS-707-R DS-251 DS-253 D3-256 DS-249 DS-252 DS-265 DS-250 192-8Q

January 24, 1964

January 24, 1964

January 13, 1964

May 1, 1962

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January 8, 1964

January 24, 1964

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BELL AEROSYSTEMS COMPANY DOCUMENTS (Reaction Control System) U3 4288 2000 REV. 8/62 NO. D2-81268 SECT. 3.0 PAGE 197 REV SYM_

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	DOCUMENT TITLE	DOCUMENT NUMBER
	Pety Analysis H ₂ O ₂	8233-910003
	Nety Analysis Flow Diagram	8233-910004
	Ifunction Bafety Analysis	8233-910005
	rvice Amalysis of Glider Installation, Service coedures and Equipment	8233-910006
	fety Analysis of Test Procedures	8233-910007
	Hability Flan	8233-927001
	stem Qualification	8233-928001
	tion I - Jet Assembly, Acceptance Test	8233-928002
	tion II - Jet Assembly Qualification	
	ttion I - Tank Acceptance Test	8233-928003
	ttion II - Tank Qualification	
	ttion I - Accessory Package Acceptance Test	8233-928004
	tion II - Accessory Package Qualification	-
	ief Valve Acceptance Test	8233-928005
,	ulator Acceptance Test	8233-928006
		Safety Analysis H202 Safety Analysis H202 Safety Analysis Flow Diagram Malfunction Batety Analysis Service Analysis of Chider Installation, Berrice Procedures and Equipment Service Analysis of Test Procedures Reliability Plan System Qualification Section I - Jet Assembly, Acceptance Test Section II - Jank Acceptance Test Section II - Tank Qualification Section II - Tank Qualification Section II - Accessory Package Acceptance Test Section II - Accessory Package Qualification Relief Valve Acceptance Test Regulator Acceptance Test

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September 22, 1962 September 20, 1963 Movember 21, 1962 December 21, 1962 February 22, 1963 December 27, 1963 January 25, 1963 October 25, 1963 October 26, 1962. RELEASE DATE August 23, 1963 August 24, 1962 March 22, 1963 April 21, 1963 July 21, 1963 June 21, 1963 May 24, 1963 BELL AEROSYSTEMS COMPANY DOCUMENT TITLE Program Status Report No. 12 rogram Status Report No. 13 Program Status Report No. 14 rogram Status Report No. 10 Program Status Report No. 11 Program Status Report No. 15 Program Status Report No. 9 Program Status Report No. 8 Program Status Report No. 6 Program Status Report No. 1 Frogram Status Report No. 5 Program Status Report No. 3 rogram Status Report No. Progress Status Report No. rogram Status Report No. MAJOR SUBCONTRACTOR __ Reliability Report DOCUMENT NUMBER 8233-932001-4 8233-933012 8233-933014 8233-933015 8233-933005 8233-933007 8233-933008 8233-933010 8233-933011 8233-933013 8233-933001 8233-933002 8233-933003 8233-933006 8233-933009 8233-93300h 2-5142-2

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200 54 55	KELEASE DATE	November 22, 1963	December 12, 1963	Documer 21, 1963 her. Petrumer 26, 1963	Pebruary 15, 1963			
A FF INSMISSOR		Program Status Report No. 16	Program Status Report No. 17	Heat Transfer Analysis	Design Development Plan			
DOC IMENT NIMBER			8233-933017 · P	8233-937001 п	8233-927002 D			

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ELECTRO-MECHANICAL-RESEARCH, INC. DOCUMENTS (Test Instrumentation Subsystem) U3 4288 2000 REV. 8/62 | NO. D2-81268 | SECT. 4.0 | PAGE 201 REV SYM____

	RELEASE DATE													May 1961	June 1961	July 1961		170	August 1961				September 1961	
MAJOR SUBCONTRACTOR ELECTRO-MECHANICAL RESEARCH, INC.	DOCUMENT TITLE		III.S Commutator - Work Statement	LLS Commutator Specification	Vendor Standard Test Equipment	PCM Ground Station Work Statement	PCM Ground Station Specification	Air Data Tape Recorder Spec.	Component Module Packaging Specification	Module Package Specification	PCM Format Recommendation	FM Conversion Set Preliminary Design	Airborne Packaging Recommendation	Technical Progress Report No. 1	Technical Progress Report No. 2	Technical Progress Report No. 3	PCM Set Preliminary Design	Development Plan	Technical Progress Report No. 4	Combined 199H VCO - Translator Specification	PCM Sync. Study Review	Government Screened Equipment List	Technical Progress Report No. 5	
	NUMBER	TYPE	A	Ą	ŭ	២	Ħ	AG	Ą	Ą	Ą	V	Ą	AG	AG	AG	¥	AG	AG	¥	¥		AG	
A = Airborne G = Ground	DOCUMENT NUMBER		0-0992	7660-1	2-0992	2660-3	4-0994	2660-5	9-0992	2-0992	2660-8	6-0992	01-0992	7660-11	7660-12	7660-13	7660-14	7660-15	91-0992	7660-17	2660-18	61-0992	76620-20	

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G = Ground DOCUMENT 7660-21 7660-23 7660-24 7660-26 7660-29 7660-30 7660-30 7660-31 7660-35 7660-35 7660-35 7660-35 7660-35	NUMBER TYPE A A A A A A A A A A A A A A A A A A A	MAJOR SUBCONTRACTOR ELECTRO-MECHANICAL RESEARCH, INC. Low-Level PCM Amplifier Design Inertial Guidance Block Diagram Human Factors Program Report Meeting Minutes - Review SCD, 9, Test Plan Revisions Procurement Spec Precision Oscillator - Time Code Generator Power Requirements Data Detail Equipment Specifications - Glider Instrumentation Subsystem PCM Filter Recommendation Technical Progress Report Checkout and Maintenance Test Equipment List Detail Equip. Spec Ground Station for Boeing Engineering Lab (Type 91A) Technical Progress Report Detail Spec Ground Station for Boeing (Type 91C) Detail Spec Ground Station for Boeing (Type 91C) Detail Spec Ground Station for Boeing (Type 91C) Detail Spec Ground Station for Boeing (Type 95) Status Report, DM-LOLI Procurement Spec. for PCM Digital Decommutator
04-0992	γœ	Status Report, DM-1011

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J3 4288 2000 RE	A = Airborne G = Ground	MAJOR SUBCONTRACTOR ELECTRO-MECHANICAL RESEARCH, INC.	
V- 8/62	DOCUMENT NUMBER	DOCUMENT TITLE	RELEASE D
	TYPE		
	7660-41 AG	Technical Progress Report	January 1965
	7660-42 A	POM/FW Multiplex Simulation Report	
	7660-43 AG	Status Report, DM-1011	January 196
	7660-44 AG	Tape Recorder Test Plan (Functional Svaluation Test Flan)	
	7660-45 A	Qual. Test Plan - Airborne Equipment (D/S Glider Conversion & Storage Equip. Prototype Qual. Test Plan & Procedure)	
	7660-47 AG	Documentation Elerarchy - Engineering Dev. of D/S TIS	
	7660-48 AG	Technical Progress Seport No. 10	February 190
	7660-49 AG	Status Report, DM-1011	February 19
	7660-50 AG	Revised Power Requirements Data	
	7660-51 A	Vendor Work Statement (Glider TIS)	
	7660-52 A	Qual. Test Report, A/B	
	7660-53 A	Acceptance Test Procedures, A/B	
	7660-54 A	Preliminary Design Report, A/B	
	7660-55 G	Statement of Work and Spec. for Data Processor Magnetic Tape Units	
	7660-56 AG	Technical Progress Report No. 11	March 1962
	7660-57 AG	Status Report, DM-1011	March 1962
	7660-58 A	Design Review Minutes - Time Code Generator	
	D 65-0994	RFI Control Plan - Ground Equipment	
	2660-60 AG	Power Requirements Data	Rev. May 19
2-	7660-61 AG	Technical Progress Report No. 12	April 1962
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	TYPE		
29-0992	Ą	Dealgn Review Minutes - 20 aps Commutator	
49-0992	_O	Qual. Tent Plan - Ground	
7660-65	Ů	Acceptance Test Requirements - Ground, AMR Van	
99-0994	Ö	Acceptance Test Procedures - Ground, AMR Van	\
7660-66.01	ъ	Abstract for Dyna-Soar Accept. Test Proc., AMB Van	2/56/62
7660-66.02	_O	Introduction for Dyna-Sonr Acceptance Test Proc., AMR Van	2/26/62
7660-66.03	g	Accept. Test Proc. for Timing Subsystem, AMR Van	7/26/62
40.99-0996	Ġ	Accept. Test Proc. for PGM Subsystem, AMR Van	2/56/62
7660-66.041	ŋ	Accept. Test Froc. for PCM Subsystem, IG/PCM Sig. Sim.	2/56/62
7660-66.05	ტ	Accept. Test Proc. for FM Subsystem, AMR Van	2/56/62
90°99-0992	v	Accept. Test Proc. for Inertial Guidance (IG) Decommutator Equip. Subnyatem, AMR Van	1/26/62
7660-66.071	o	Accept. Test Proc. for Recording Subsystem, Ampex Tape Recorder/Reproducer, AGR Van	7/26/52
7660-66.072	_O	Accept. Test Proc. for Recording Subsystem, CSC Oscillograph,	1/26/62
7660-66.08	ъ	Accept. Test Proc. for Intercom. Subsystem, AMR Van	2/26/62
60*99-992	v	Accept. Test Proc. for 11/2 System Ground Data Recovery Elements,	. 7/26/62
49-0994	ø	Druwing Index for D/S Acceptance Test Reports, Ground AMR Van	2/26/62
7660-67.01	ø	Abstract for D/S Acceptance Test Reports, AMR Van	2/26/62
7660-67.02	•	Introduction for D/S Accept. Test Reports, AMR Van	7/26/62
2660-67.03	Ü	Arrent. Test Barent for Califor Salavatam. AM Van	7/36/62

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RELEASE DATE 7/26/62) 7/26/62 7/26/62 2/56/62 7/26/62 7/26/62 5/25/63 29/92/2 7/26/63 8/10/62 8/10/62 8/10/62 8/10/62 8/10/62 8/10/62 B/10/62 Accept. Test Report for Inertial Guidance (19) Decommutator Squip. Accept. Test Report for D/S System Ground Data Becovery Slements, Accept. Test Report for POM Subayatem, IG/POM Sig. Sim., AMR Van Accept. Test Report for Recording Subaystem, CMC Cacillograph, ELECTRO-MECHANICAL RESEARCH, INC. Accept. Test Report for FM Subsystem, AMS Van, FM Calibrator Accept. Test Proc. for PGM Subsystem, IG/PGM 51g. Sim., SIL Drawing Index for D/S Accept. Test Procedures, Ground, SIL Accept. Test Report for Recording Subsystem, Ampex Tape Recorder/Reproducer, AMR Van Accept. Test Report for Intercom. Subsystem, AMB Van Accept. Test Report for PCM Subsystem, AMR Van Accept. Test Report for FH Subsystam, Ald Van Accept. Tent Proc. for Timing Subsystem, SIL Introduction for D/S Accept. Test Proc. SIL DOCUMENT TITLE Accept. Test Proc. for FCM Subsystem, SIL Abstract for D/8 Accept. Test Proc., 5IL tocept. Tent Proc. for PM Subsystem, SIL D/S Acceptance Test Requirement, SIL MAJOR SUBCONTRACTOR Subsystem, AMR Van NR Van DOCUMENT NUMBER TALE Ö Ü Ö Ö A = Airborne 140-67-0997 7660-67.051 1660-67-093 7660-67.072 G = Ground 7660-67.05 7660-69-0937 7660-67.04 90.79-0997 7600-67.08 7660-67.09 7660-69-03 40.69-0996 7660-69.01 7660-69.02 7660-69-05 69-0994 89-0994

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Accept. Test Reports for Recording Subsystem, CEC Oscillograph, SIL X-20 Accept. Test Report for Calibrated Tape Preparation Subsystem, SIL X-20 Accept. Test Report for IG Decom. Subsystem SIL, IG Sig. Sim Operating Proces, for Test Set - A/B Data Tape Recording System FLECTRO-MECHANICAL RESEARCH, INC. Critical Design Review Minutes - FW Translatur Model 56-7660A Accept. Test Reports for PCM Data Processor Subsystem, SIL Maintenance Program Plan for Ground Data Recovery Mements Accept. Test Reports for IG Data Processor Subsystem, SIL Accept. Test Reports for Recording Subsystem, Ampex Tape Recorder/Reproducer, SIL Accept. Test Reports for D/S System Ground Data Recovery Coordination Notting Minutes - PCM & IO Format Converter Preliminary Design Review, PCM, FW/Mixer Fower Supply Preliminary Denign Review - FM Conversion/Mixer Sets Accept. Test Reports for Intercom. Subsystem, SIL Preliminary Design Raview System Orientation DOCUMENT TITLE Preliminary Design Seview - FM Calibrator Time Gode Generator Component Test Set Technical Progress Report No. 13 MAJOR SUBCONTRACTOR Elements, SIL DOCUMENT NUMBER . . . Airborn 190"04-0994 1,660-70,071 7660-70.072 0 * Ground 7660-70.08 60*04-0994 2660-70,10 7660-70.12 7660-70.11 7660-73 26-0994 12-0992 7660-75 7660-76 2660-79 42-0992 2660-78 2660-77

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7660-81

a = Ground	55	MAJOR SUBCONTRACTOR ELECTRO-MECHANICAL RESEARCH, INC.	
DOCUMENT NUMBER	NUMBER	DOCUMENT TITLE	RELEASE DATE
	TIPE		
7660-82	Ą	Preliminary Design Bayles - A/B Tana Danmaton	· · · · ·
7660-83,	A	Module Level CDR Requirements	
7660-84	AG	Technical Programs Report No. 14	
.49-0992	4	Module/Component Identification New Year	June 1962
.98-0992	¥	Preliminary Design Review - PCM Programmer (min.	2/25/62
. 29-0992	4	Proliminary Design Raviou of Hob-level Committee Co.	
.88-0992	V	Proliminary Design Review - ADC (Minstea)	
.68-0994	B	Proc. Spec. for Trailers, DG/TIS (AMR & APPRO.)	
06-0994	•	Test Planning for D/S TIS (Himtes)	The state of the s
16-0992	8		
7660-92	: •	Acceptance Test Procedures - Ground - Edwards Lab	
7660-92.01	8	Abstract for Accept. Test Procedure, AFFIC Perm. Base	- // 200
7660-92.02	g	Introduction for X-20 Accept. Test Proc. Approx 2	6/25/63
7660-92.03	_v	X-20 Accept, Test Proc. for Recording Subsection, press	6/25/63
7660-92.04	ජ	X-20 Accept. Test Proc. for IS Decommutator Subsystem,	6/25/63
7660-92.041	ъ	7.50	6/25/63
7660-92.05	e e	X-20 Accept. Test Proc. for IG Format Converter Subays tes AFFIC	6/25/63
7660-92.06	0	X-20 Accept. Test Proc. for PM Subsystem AFFRC Dave Bane.	-01 -01)
7660-92.061	_o	X-20 Accept. Test Proc. for PM Subsystem, FM Calibrator, APPTC	6/27/63

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DOCUMENT NUMBER	NUMBER	DOCUMENT TITLE	RELEASE DATE
	TYPE		I
7660-92.07	ʊ	X-20 Accept. Test Proc. for System Ground Data Bacovary Elements, APPIC Perm. Rase	6/25/63
7660-93	Ü	Acceptance Test Reports - Ground - Edwerin Lab.	
10.59-037	o	Abstract for X-20 Accept. Test Reports APPTC Perm. Rass	6/25/63
7660-93.02	Ö	Introduction for X-20 Accept. Test Reports, AFTG Pers Base	6/25/63
7660-93.03	_G	X-20 Accept. Test Report for Recording Subsystem, AFFIC Perm. Base	6/25/63
7660-93.04	.	X-20 Accept. Test Report for IG Decembrator Subsystem, AFFTC Perm. Same	6/25/63
160-63-091	v	X-20 Accept. Test Procedure for IG Decommutator Subsystem, IG Sig. Sim., AFFTC Perm. Base	6/25/63
2660-93.05	•	X-20 Accept. Test Report for 10 Format Convertor Subsystem, AFFIC Perm. Base	6/25/63
7660-93.06	ප	X-20 Accept. Test Report for FM Subaystem, AFFIC Parm. Bass	6/25/63
7660-93.061	G	X-20 Accept. Test Report for PM Subsystem, FM Calibrator, AFFTC Perm. Buse	6/25/63
7660-93.07	U	X-20 Accept. Test Reports for System Ground Data Recovery Elements.	6/25/63
7660-94	8	Accept. Test Requirements - Ground - AFFTC Van	
7660-95	b	Accept. Test Procedures - Ground - Edwards Van	
100-66-0994	છ .	Abstract for X-20 Accept. Test Proc AFFTG Van	6/25/63
7660-95.02	ø	Introduction for X-20 Accept. Test Procedures, - AFFTC Van	6/22/63
7660-95.03	5	X-20 Accept. Test Proc. for Timing Subsystem, AFTC Van	6/25/63
7660-95.04	Ö	X-20 Accept. Test Proc. for POH Subsystem, AFFEC Van	6/25/63

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DOCUMENT NUMBER	NUMBER	DOCUMENT TITLE	RELEASE DATE
	TAPE		
7660-95.041		X-20 Ascept. Test Pros. for PCM Subsys tem, IO/PCM Sig. Sim., AFFIC Van	6/22/63
7660-95.05	0	X-20 Accept. Test Proc. for FM Subsystem, AFTTC Van	6/25/63
7660-95.051	0	X-20 Accept. Test Proc. for FM Subsystem, FM Calibrator AFFIC Van	6/25/63
2660-99,06	0	X-20 Assept. Test Proc. For Inertial Guidance (IG) Decommutator Equipment Subsystem APPRO Van	6/25/63
7660-95.071	0	X-20 Accept. Test Proc. for Recording Subsystem, Part I.	6/25/63
7660-95.08	•	X-20 Accept. Test Proc. for Intercom. Subsystem, AFTTC Van	6/25/63
7660-95,09	0	X-20 Accept. Test Proc. for System Ground Data Recovery Elements, AFFIC Van	6/25/63
96-0994	9	Accept. Test Reports - Ground - Edwards Van	
7660-96.01	9	Abstract for X-20 Accept, Test Reports, AFFIC Van	6/25/63
20-96-0994	9	Introduction for X-20 Accept. Test Reports, AFFIC Van	6/25/63
20.96-0396	5	X-20 Accept. Test Report for Tining Subsystem, APPIN Van	6/25/63
7660-96.04	0	X-20 Accept. Test Report for PCM Subsystem, AFFTC Van	6/25/63
7660-96.041	0	X-20 Accept, Test Report for PCH Subsystem, IG/PCH Signal	6/25/63
		Stanlator, AFFTC Van	
7660-96-05	c	X-20 Accept. Test Report for PM Subsystem, AFFTO Van	6/25/63
7660-96-051	0	X-20 Addept. Test Report for FM Subsystem, FM Calibrator, AFFIC Van	6/25/63
200-96-0992	0	X-20 Accept. Test Report for Inertial Guidance (IG) Decommutator	6/25/63

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X-30 Accept. Test Proc. for PCM Subsystem, PCM Sig. Simulator, X-20 Accept. Test Proc. for Timing Subsystem, AMR Boeing FTCC X-20 Accept. Test Proc. for PM Subsystem, FM Calibrator AMR Boeing FTCC X-20 Accept. Test Report for Intercom. Subsystem, Affird Van X-20 Accept. Test Proc. for PCM Subsystem, AMS Resing FTCC X-20 Accept. Test Report for Recording Subsystem, Part II, AFFIC Van Abstract for X-20 Accept. Test Procedures, AMR Boeing FTCC X-20 Accept. Test Report for Recording Subsystem, Part I, AFFTG Van Introduction for X-20 Accept, Test Proc. AMR Bosing PTCC X.-20 Accept. Test Proc. for PM Subsystem AMR Sceing PINC (-2) Accept. Test Report for System Ground Data Recovery Accept. Test Requirements, Ground, AMR Bosing FINC Accept. Test Procedures - Ground, AMS Bosing FICC MAJOR SUBCONTRACTOR -Clements, AFTIC Van AMR Boeing PTCC DOCUMENT NUMBER TYPE O Ü A = Airborne 7660-98-051 7660-98.041 7660-96.072 7660-96-071 7660-98.05 7660-98.03 7660-98.04 7660-98.02 2660-96-0997 7660-98.01 7660-96.08 G = Ground 86-0994 7660-97

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X-20 Accept. Test Proc. for IG Decommutator Subsystem, IG Sig. Sim., AMR Boeing FTCC

X-20 Accept. Test Proc. for IG Decommutator Subsystem, AMR Boeing FTCC

X-20 Accept. Test Proc. for Recording Subsystem, Part I AMR Boeing FTCC

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ъ 80-86-099	X-20 Accept Test Proc. for Recording Subsystem, Part II	6/25/63
7660-98.10 G	X-20 Accept. Test Proc. for System Ground Data Recovery Massets,	6/25/63
7660-99. G	Acceptance Test Reports - Ground, AMR Bosing FTCC	6/25/63
7660-99.01	Abstract for X-20 Accept, Test Seports, AMS Bosing PTCC	6/25/63
7660-99.02 G	Introduction for X-20 Ascept. Test Reports, AMR Bosing FTCC	6/25/63
7600-99.03 G	X-29 Accept. Test Reports for Timing Subsystem, AMR Booing FTCC	6/25/63
P +0.66-0997	X-20 Accept. Test Report for PCM Subsystem, AMR Bosing FTCG	6/25/63
2660-99°041	X-20 Accept. Test Report for PCM Subsystem, PCM Sig. Sim. AMB Boeing PTCC	6/25/63
7660-99.05 G	X-20 Accept. Test Report for PM Subaystem, AMR Beeing FTCC	6/25/63
7660-99.051 G	X-20 Accept. Test Report for FM Subsystem, FM Calibrator,	6/25/63
b 90°66-0994	X-20 Accept. Test Report for IG Decommutator Subsystem.	6/25/63
7660-99.061	X-20 Accept. Test Report for IG Decommutator Subsystem IG Signal Sim. ANR Bosing FICC	6/25/63
7660-99.07 G	X-20 Accept. Test Report for Recorder Part I, AMR Beeing FTCC	6/25/63
		6/25/63
b 60°66-0992	X-20 Accept. Test Report for Recording Subsystem, Part III.	6/25/63

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7660-99.10		X-20 Accept. Test Seport for System Ground Data Secovery Massents,	6/52/9
2660-100	0	Acceptance Test Hequirements - Ground AMR Tel. Rec. Bld.	
7660-101	0	Acceptance Test Procedures - Ground, AMR Site No. 1	
7660-101-01	9	Abstract for X-20 Accept. Test Proc., AMR T/M Revr. Bld.	2/5/64
7660-101-02	0	Introduction for X-20 Accept. Test Proc., AMR T/M Rayr, Bld.	2/K/Ks
7660-101.03	9	X-30 Accept. Test Proc. for Thaing Subsystem. AMR T/M Bowr. Mid.	2/5/63
7660-101.04	0		2/2/63
7660-101-041	0	X-20 Accept. Test Proc. for PCM Subsystem, PCM Sig. Sim.	2/5/63
		AMR T/H Rove. Bld.	
2660-101-05	0	X-20 Accept. Test Proc. for PM Subsystem, AMR T/M Revr. Bld.	7/5/63
7660-101-051	0	X-20 Accept. Test Proc. for FM Subsystem, FM Calibrator, AMR I/N Rovr. Bld.	1/5/63
7660-101.06	9	X-20 Accept. Test Proc. for IG Decomm. Subsystem, ANR T/N Rove. Eld.	7/5/63
7660-101-061	o	X-20 Accept. Test Proc. for IG Decomm. Subsystem, IG Sig. Sim.,	1/5/63
7660-101.07	ಅ	X-20 Accept. Test Proc. for Recording Subsystem, Part I AMR	1/3/63
80-101-0992	. ტ	X-20 Accept. Test Proc. for Recording Subsystem, Part II AMS I/H Revr. Bld.	7/5/63
2660-101 ₋ 09	o	X-20 Accept, Teat Proc. for Recording Subsystem, Part III AMR	1/5/63
7660-101.10	ອ	X-20 Accept. Test Proc. for System Ground Data Recovery Elements.	7/5/63

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200-103	SGEE 0	Acceptance Test Reports, Ground, AMR Site No. 1	
7660-102-01	0	Abstract for X-20 Accept. Test Proc., ANH T/M Bowr. Bld.	2/2/63
7660-102.02	0	Introduction for X-20 Accept. Test Proc., AMR T/H Revr. Bld.	7/5/63
7660-102.03	0	X-20 Accept. Test Proc. for Thaing Subsystem, AMR TM Rovr. Bid	7/5/63
7660-102.04	0	X-20 Accept. Test Proc. for PON Subsystem, AMR T/M Rovr. Bld.	7/5/63
7660-102.041	0	X-20 Ascept. Test Proc. for PCM Subsystem, PCM Sig. Sim., AMR T/M Revr. Bld.	1/5/63
7660-102.05	0	X-20 Accept. Test Proc. for PM Subsystem, AMR T/M Rowr. Bld.	7/5/63)
7660-102,051	0		1/2/63
7660-102.06	0	X-20 Accept. Test Proc. for IG Decomm. Subsystem, AMS T/M Rovr. Bld.	7/5/63
7660-102.061	0		7/5/63
7660-102.07	0	X-20 Accept. Test Proc. for Recording Subsystem, Part I, AMR T/M Rovr. Bld.	1/5/63
7660-102.08	•	X-20 Accept. Test Proc. for Recording Subsystem, Part II	7/5/63
7660-102.09	0	X-20 Accept. Test Proc. for Recording Subsystem, Part III, AMR T/M Rovr. Bld.	2/5/63
7660-102,10	•	X-20 Accept. Test Proc. for System Ground Data Recovery Elements.	2/5/63
7660-103		In-House Procurement Spec. for Certain D/5 Ground Data Recovery Elements	
7660-104	U	Detailed Equipment Spec. for D/S Ground Data Recovery Elements	

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TYPE Final Techn 7660-105 A Final Techn 7660-106 A Final Techn 7660-107 A Final Techn 7660-107 A Final Techn 7660-107 A Froject 431 7660-108 G EMR Format 7660-110 AG Fronsat 7660-111 G EMR Format 7660-112 G EMR Format 7660-113 AG Ferliminary 7660-114 G Ferliminary 7660-115 G Ferliminary 7660-116 G Ferliminary	Final Technical Report - Model 81-7660A Translators, Project 4311-3210 Final Technical Report - Model 81-7660G Subcarrier Oscillator, Project 4311-3410 Froject 4311-3410 EMR Format for D/S Acceptance Test Procedures	
6 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	mical Report - Model 81-7660A Translators, 11-3210 mical Report - Model 81-7660G Subcarrier Oscillator, 11-3410 nical Report - Model 81-7660H Subcarrier Oscillator, 11-3410 for D/S Acceptance Test Procedures	
6 A G G G G A S	nical Report - Model 81-7660G Subcarrier Oscillator, 11-3410 nical Report - Model 81-7660H Subcarrier Oscillator, 11-3410 for D/S Acceptance Test Procedures	
4	nical Report - Model 81-7660H Subcarrier Oscillator, 11-3410 for D/S Acceptance Test Procedures	
6 A G G G G G G G G G G G G G G G G G G	for D/S Acceptance Test Procedures	
G A G G A A G		
0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Process Specification for Tin-plating Magnesium-based Alloys	
	Technical Progress Report No. 15	July 1962
V D D D	Format for D/S Acceptance Test Reports	
90 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Format for D/S Acceptance Test Requirements	
. 90 9	Revised Power Requirements Date	27 August
AG .	Preliminary Dealgn Review - A/B Data Tape Seconder/Reproducer	29/9/6
G Des	Technical Progress Report No. 16	August 196
	ign Review Dats Requirements, Ground (Meeting Minutes)	10/2/62
7660-117 G Preliminary	Preliminary Design Review - IG Format Converter (Ground)	10/2/62
7660-118 A Preliminary	Preliminary Design, Revision "C" - PM/Mixer Conversion Set	10/3/62
7660-119 G Pre-Detecti	-Detection Recorder/Reproducer	
7660-120 G Dealen Proc	Ign Procurement Spec PM Ground Station	
7660-122 A Preliminary	Preliminary Design Review, Pachaging Techniques	
7660-123 G Preliminary	Preliminary/Critical Design Review - Line & Mixer Amplifier Ground Station	

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	TYPE		1000
7660-124	ರ	Preliminary Design Review - PCM Sig. Conditioner Ground	10/8/62
7660-125	ರ	Preliminary Design Review - IG Decommutator - Ground Station	29/8/01
7660-126	AG	Technical Progress Report No. 17	September 1962
7660-127	AG	Technical Progress Report No. 18	October 1962
7660-128	AG	Revised Pover Requirements Data	December 3, 1962
7660-129	AG	Technical Progress Report No. 19	November 1962
7660-130	4	Critical Design Review Date, FM Conversion Set, Models G, H, X & A	12/26/62
7660-132	ტ	Specification for D/6 Digital Displays	
7660-133	ð	Design Procurement Spec Digital Printer (30 Channels) (Clary)	
7660-134	ರ	Dealgn Procurement Spec., Ber Graph Displays (20 Channels)	
7660-135	O	Design Procurement Spec Bar Graph Displays (200 Charmels)	
7660-136	ರ	Dealgn Procurement Spec. for Multi-Stylus Recorder	
7660-137		NOT YET ASSIGNED	
7660-138	Ö	Design Procurement Spac Extra Digital and Analog Outputs	
7660-139	ರ	Design Procurement Spec Extra Digital and Analog Cutjuts	
041-0991	ರ	Critical Design Review Data, Instr. Trailer	12/27/62
141-0991	9	Critical Design Review Data, PCM Sig. Conditioner	15/21/62
7660-142	Ą	diff Date, TCG (Less Compressits #6 & #14)	75/21/62
7660-143	AG	Technical Progress Report No. 20	December 1962
7660-144	Ö	NIN/CIN on Input Patch Punel (96-7660M)	75/21/62
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	TYPE		
7660-146	ව ·	FDR/CIR Scale Factor Panel - 56-76600	12/21/62
741-0997	ტ	FDR/CIR IS Switten Module 56-7550R	75/21/62
7660-148	ტ	FDR/CDR Time Interval Panel 96-76600	75/21/62
7660-149	ტ	MIR/CLH Time Dist. Penel 56-75608	12/21/62
7660-150	ტ	HIN/CIR Time Modulator Penel 56-7660H	12/21/62
7660-151	Ö	D/S 700 Specification	
7660-152	೮	D/5 Time Decoder Spec.	
7660-153	ಆ	FDR/CDR Elapsed Time Meter Panel, 56-76609	12/21/62
7660-154	ಅ	FDR/CDR Output Patch Panel, 56-7660-L	12/21/62
7660-155	¥	CDR on Part of Dual Mixer Amplifier, 81-76608	*****
7660-156	¥	CDR on Pre-Emphasis Matrix	,
7660-157	ტ	Strip Chart Recorder - D/S Spec.	•
7660-158	Ą	CDR on Relay Module	and the state of t
7660-159	A	CDR on Isolation Amplifier	
7660-160	Ö	D/S Console Display Elements Spec.	
191-0991	U	Specs. for D/S Display Console for AMR, AFFIC Landing Sites	
7660-162	Ġ	Specs. For D/S Display Console for AMR, AFFIC Landing Sites	No. of the Str
7660-163	છ	Specs. For D/S Display Console for AMR, AFFIC Landing Sites	
1660-164	AG	Power Requirement Data	5/1/63
7660-165	AG	Technical Progress Report No. 21	January 1963
7660-166	*4	CDR on PCM Power Supply, Model No. 81-7660V	2/32/63

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V. 8/62	DOCUMENT NUMBER	NUMBER	DOCUMENT TITLE	RELEASE DATE
		TYPE		
	7660-167	Ą	CDR on Voltage Controlled Oscillator, Model No. 81-7660E	2/12/63
	7660-168	4	CDR on Voltage Controlled Oscillator, Model No. 81-7660F	2/12/63
	7660-169	Ą	CDR on FM/Mixer Power Supply, Model No. 81-7660AA	2/12/63
	7660-170	ರ	CDR on IG Format Converter	2/15/63
	7660-171	ტ	D/S, TMM Standard Test Equipment	
	7660-172	_O	A) Fracision Telemeter Oscillator, B) Pulse Counter, C) Vacuum Tube Voltmeter, D) Digital Voltmeter, E) Pulse Generator, P) Square Wave Generator	
	7660-173	Ö	Special Test Equipment	
	421-0992	Ġ	CDR on PCM Format Converter	3/12/63
	7660-175	AG	Technical Progress Report No. 22	February 1963
	7560-176	Ö	CDR on IG Decomm., X-20 Ground System	3/26/63
	7660-177	Ą	CDR of Article 10-81003-3 (FM Conversion Set) X-20 TIS	3/26/63
	7660-178	ტ	CDR on SIL Ground Station and its Associated Equipment	3/26/63
	7660-179	ø	FOR of the AFFIC PETL	3/26/63
	7660-180	AG	Technical Progress Report No. 23	March 1963
	7660-183	ජ	Conditioning Sets for Real-Time Data Transmission & Display	
	7660-184	ರ	Conditioning Sets for Real-Time Data Transmission & Display	
	7660-185	Ċ	Computer Input Preparation Equipment	
	7660-186	AG	Power Requirements Data	1726/63
1	7660-187	Ą	CDR on PCM Conversion Set	5/6/63
-5142	7660-188	AG	Technical Progress Report No. 24	Apr 11 1963
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O operation & Maintenance Hemnel Vol. V, IO Decommitator Subsystem - SIL Operation & Maintenance Hemnel Vol. VI, Recording Subsystem, Part I & II - SIL Operation & Maintenance Mennel Vol. VII, FCM Data Processor Subsystem - SIL Operation & Maintenance Mennel Vol. VIII, IO Data Processor Subsystem - SIL Operation & Maintenance Mennel Vol. IX, Calibrated Tupe Preparation Subsystem , SIL Operation & Maintenance Mennel Vol. X, Interface Equipment & Intercommunications Subsystem - SIL Operation & Maintenance Mennel Vol. XI, Standard Test Equip. SIL Vol. XI, Standard Test Equip. SIL X-20 Test Documentation Control Procedure	660-203	0	Operation & Maintenance Manual Vol. IV, PM Subsystem - SIL	January 1964
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	560-211	0	X-20 Test Documentation Control Procedure	8/20/63

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RELEASE DATE September 1963 November 1963 October 1963 August 1963 11/15/63 12/2/63 Minutes of Meeting, TBC & EMR, PDR/CDR Mins. of A/B Tape Recorder Remote Cont. Mod. MAJOR SUBCONTRACTOR ELECTRO-MECHANICAL RESEARCH, INC. Revised Power Requirements Data, August 1963, X-20 TIS CDR Minutes, AFFIC Permanent Base Lab - X-20 Ground DOCUMENT TITLE Technical Progress Report No. 29 Technical Progress Report No. 30 Technical Progress Report No. 28 Reliability Program Plan FOR Mins., AFMIC, BFICC DOCUMENT NUMBER TYPE AG AG AG G - Airborne G = Ground R & Q-005 7660-218 7660-215 7660-216 7660-212 7660-213 7660-217 7660-214 2-5142-2

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5.0 LING-TEMCO-VOUGHT DOCUMENTS (Nose Cap Assembly) U3 4288 2000 REV. 8/62 REV SYM_ SECT. 5.0 PAGE 223

DOCUMENT NUMBER	DOCUMENT TITLE	RELEASE DATE
AST/311.3	Mechanical Properties Testing for Design Allowables and Material Data	Rev. February 14,
AST/311.4	Standard Test Procedures for Mechanical Properties Tests	Movember 6, 1961
AST/311.5	Thermal Analysis of the No. 2B Structural Demonstrator	November 6, 1961
AST/EIR-12884	Weight and Balance Report - Dyna-Soar Nose Cap Development	February 23, 1961
AST/EIR-12885	Design Criteria Report	March 3, 1961
AST/EIR-12887	Dyna-Soar Nose Cap Assembly Reliability Program	Rev. September 8,
AST/KIR-12889	Interim Technical Report Mechanical Properties Test Data	April 15, 1961
AST/EIR-12890	Interis Technical Report on Physical Properties Tests - Dyna-Scar Rose Cup Materials	April 18, 1961
AST/EIR-12891	Test Plan - Propane Torch Assembly Calibration	April 10, 1961
AST/EIR-13416	Structural Concept Test Flan	April 3, 1961
AST/EIR-13417	Procurement Plan for Graphite for the Dyna-Scar I Rose Cap Structure	April 13, 1961
AST/EIR-13418	Chemical Compatibility of Nose Cap Materials	April 17, 1961
AST/ETR-13419	Energy Management Analysis of Dyna-Soar Guidance During Unpowered Flight	April 24, 1961
AST/KIR-13421	Instrumentation Boys coment flast Plan	Bev. Centerher 0

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DOCUMENT NUMBER	DOCUMENT TITLE	RELEASE DATE
AST/EIR-13422	Dyna-Sonr Nose Cap Graphite Development Test Plans	Bev.Jamery 29, 1962
AST/EIR-13423	Pressure Port Pailure Fraluation - Test Plan	Nev.October 9, 1961
AST/EIR-13424	Instrumentation - Technical Report of Analytical Stadies for Pressure Transmitting System	May 20, 1961
AST/EIR-13427	Aerodynamic Heating and Air Loads for the Dyna-Soar Nose Cap	Rev.October 25, 1961
AST/EIR-13428	Instrumentation Flan to Obtain Data for Procurement Specifications	Rev. Srydember 8, 1961
AST/EIR-13429	Specification for Dyna-Soar Rose Cap Instrumentation Systems	Rev.November 9, 1961
AST/EIR-13430	Preliminary Test Report Cylindrical Component 21-D3	July 18, 1961
AST/EIR-13431	Structural Reliability of Components Using Brittle Materials Strength Analysis	Rev. December 31, 1963
AST/EIR-13432	Criteria for Ground Testing and Evaluating the Test Results of the Dyna-Scar Full-Scale Developmental Nose Caps	July 21, 1961
AST/EIR-13433	Temperature Analysis of Dyna-Soar Nose Cap	June 24, 1961
AST/EIR-13434	Zirconia Development Test Plan	July 25, 1961
AST/EIR-13435	Heat Shield, Retainer Ring, Support Lugs and Attachments Development Plan	September 1, 1961
AST/EIR-13438	Temperature Results of Three Structural Demonstrator Models	September 1, 1961

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DOCUMENT NOMBER	DOCUMENT TITLE	RELEASE DATE
AST/EIR-13439	Statement of Work Vendor Subcontract Tasks Dyna-Soar Nose Cap Instrumentation	Rev. November 9, 1961
AST/EIR-13440	Reliability Fallure Analysis Report for Dyna-Soar Nose Cap No. 2A Test Specimen	September 6, 1961
AST/EIR-13442	Development Environmental Test Plan	September 13, 1961
AST/EOR-12859	Structural Component Development Test Plan	August 25, 1960
AST/EOR-12860	Dyna-Soar HETS Nose Cone - Design Criteria Report	September 19, 1960
AST/EOR-12863	Structural Design Data and Materials Allowables Test Plan	September 19, 1960
AST/EOR-12864	Physical Properties Test Plan - HETS Nose Cone	Rev. Outober 27, 1961
AST/BOR-12866	Chemical Compatibility Test Plan	Rev.Jammry 29, 1962
AST/EOR-12873	Weight and Balance Report No. 1	December 9, 1960
AST/EOR-12874	Test Plan Dyna-Soar Nose Cap Plasma Arc Jet Structural Specimens	Rev. September 6, 1961
AST/EOR-12876	Failure Analysis Report of A-1 Nose Cap Assembly	November 9, 1960
AST/ECR-12878	Analysis of Heat Transfer Measurement of a Mach 8 Dyna-Soar Nose Cap	January 23, 1961
KIR-12882	Photographic Plan	May 1, 1961
BOR-12865	Zirconia Insert Development Test Plan - HETS Nose Cone	September 19, 1960

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DOCUMENT NUMBER	DOCUMENT TITLE	RELEASE DATE
BOR-12868	Environmental Test Flan - HEPS Nose Cap	October 10, 1960
12869 MOII-12869	Statement of Work - Dyna-Soar Hose Cap Assembly Development Program	Outober 14, 1960
EOR-12870	Instrumentation Development Test Plan - HRTS Nose Cone	October 19, 1960
BOR-12875	Volume I - Development Plan Nose Cap Assembly	October 17, 1960
EOR-12877	Hose Cap Development Program Increment Statement of Work	December 27, 1960
ME-RQR-3-113	Induction Heater Checkout and Calibration Test Report	December 30, 1963
ME-RQR-3-114	Boost Vibration Test Report Pull-Scale X-20 Nose Cap (Verification #1)	December 28, 1963
TIR 63-59900-302A	Verification #1 Nose Cap Assembly Environmental Tests (Balease #1)	December 18, 1963
00°416	Simulated Flight Vibration Test - X-20 Structural Demonstrator #4 Hose Cap Assembly	February 11, 1963
3-14000/2R13	Dyna-Soar Nose Cap 1234 Development Test Plan	January 29, 1962
3-14000/2R17	Pressure Fort Failure Test Report.	January 1, 1962
3-14000/2R19	Buttunes of Lirconia to 4600*F	April 30, 1962
3-14000/2834	Development of Airborne Instrumentation for the Dyna-Soar Mose Cap Assemblies	May 21, 1962

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DOCUMENT NUMBER	DOCUMENT TITLE	RELEASE DATE
3-14000/eR38	Stot Heating on the Pypa-Soar Nose Cap	June 15, 1962
3-14000/2839	Thermal Analysis of the No. & Structural Demonstrator	June 7, 1962
3-14000/2840	Design Philosophy and Criteria X-20 Rose Cap	September 9, 1963
3-14000/2842	Stress Analysis of the No. 4 Structural Demonstrator Oraphite Shell	July 16, 196e
3-14000/2844	Final Development - Veriffontion Test Plan	July 16, 1962
3-14000/2845	Oriteria for Oround Testing and Evaluating the Test Results of Dyna-Soor Structural Demonstrator No. 4 Nose Cmp	August 13, 1962
3-14000/3828	Verification Test Plan Full Scale X-20 Hose Cap Assemblies	Rev.October 11, 1963
3-14000/3829	Graphite, Interin Mechanical Properties Report	January 1963
3-14000/3839	Heliability Failure Analysis Report X-20 No. 4 Structural Demonstrator Nose Cap Assembly	March 15, 1963
3-14000/3842	Physical and Mechanical Properties of Materials Use for Design of the X-20 Nose Cup	Nev. September 26, 1963
3-52130-0162	Specimen Damage Report on X-20 Zirconia Tile Component 50B After Environmental Test	
3-52130-0196	Evaluation of X-20 Verification No. 1 Nose Cap After Environmental Test (Nelease #1)	January 9, 1964
3-54200/318-288	Temperature Data on Dyna-Soar Nose Cap (Verification #1)	December 18, 1963

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DOCUMENT NUMBER	DOCUMENT TITLE	RELEASE DATE
311.2	Weight and Balance Report No. 2	September 29, 1961
311.11	X-20 Nose Cap Hyperthermal Test Apparatus - Descriptive Report (Oxygen-Propane Burner)	December 9, 1963
311.13	Criteria for Ground Testing and Evaluating the Test Results of X-20 Verification No. 1 and No. 2 Nose Caps	Rev. September 23,1963
311.15	Thermal Analysis of the Production Nose Cap	July 30, 1963
311.17	X-20 Nose Cap Elastic Energy Analysis	July 31, 1963
311.21	X-20 Nose Cap Loads and Stress Analysis of the Froduction Nose Cap	October 30, 1963
311.23	TZM Final Mechanical Properties - TZM Molybdenum	November 22, 1963
311.24	Graphite Final Mechanical Properties Report	November 30, 1963
311.26	X-20 Graphite Development Plan Test Results	December 27, 1963
62-59900-185	Release 1, 2, 3 - Oxygen-Propane Burner - Special Test for No. 4 Nose Cap	Jamery 1963
	PROGRAM PLANS	
AST/EOR-13085	Program Plan - DS-1 HETS Nose Cone	August 18, 1960
AST/BOR-12862	Program Plan - DS-1 HETS Nose Cone	September 9, 1960
AST/EIR-12880	Program Plan	Rev.October 10, 1963
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AST/EGR-12861 Monthly Technical Progress Report - D6-1 HETS Nose Cone September 1, 1960 AST/EGR-12867 Monthly Technical Progress Report - D6-1 HETS Nose Cone October 1, 1960 AST/EGR-12872 Monthly Technical Progress Report - D6-1 HETS Nose Cap Development December 15, 1960 AST/EGR-12873 Monthly Technical Progress Report December 15, 1961 AST/EGR-12883 Monthly Technical Progress Report Progress Report AST/EGR-13420 Monthly Technical Progress Report Monthly Technical Progress Report AST/EGR-13436 Monthly Technical Progress Report Monthly Technical Progress Report AST/EGR-13437 Monthly Technical Progress Report August 15, 1961 AST-311.6 Monthly Technical Progress Report Report AST-311.7 Monthly Technical Progress Report Report <t< th=""><th>DOCUMENT NUMBER</th><th>DOCUMENT TITLE</th><th>RELEASE DATE</th></t<>	DOCUMENT NUMBER	DOCUMENT TITLE	RELEASE DATE
Monthly Technical Progress Report - DS-1 HETS Nose Cone Monthly Technical Progress Report	AST/BOR-12861	Monthly Technical Progress Report - DS-1 HETS Nose Cone	September 1, 196
Monthly Technical Progress Report	AST/ECR-12867	Monthly Technical Progress Report - DS-1 HETS Nose Cone	October 1, 1960
Monthly Technical Progress Report - DS-1 Rose Cap Development Monthly Technical Progress Report	AST/BOR-12872	Monthly Technical Progress Report	December 15, 1960
Monthly Technical Progress Report	AST/EIR-12879	Monthly Technical Progress Report - DS-1 Nose Cap Development	Jamary 15, 1961
Monthly Technical Progress Report	AST/EIR-12883	Monthly Technical Progress Report	February 15, 1961
Monthly Technical Progress Report		Monthly Technical Progress Report	March 15, 1961
Monthly Technical Progress Report	AST/EIR-13420	Monthly Technical Progress Report	Apr41 15, 1961
Monthly Technical Progress Report		Monthly Technical Progress Report	May 15, 1961
Monthly Technical Progress Report		Monthly Technical Progress Report	June 15, 1961
Monthly Technical Progress Report	AST/EIR-13436	Monthly Technical Progress Report	July 15, 1961
Monthly Technical Progress Report Monthly Technical Progress Report Monthly Technical Progress Report Monthly Technical Progress Report	AST/EIR-13437	Monthly Technical Progress Report	August 15, 1961
Monthly Technical Progress Report Monthly Technical Progress Report Monthly Technical Progress Report Monthly Technical Progress Report		Monthly Technical Progress Report	September 15, 196
Monthly Technical Progress Report Monthly Technical Progress Report Monthly Technical Progress Report	AST-311.6	Monthly Sechnical Progress Report	October 15, 1961
Monthly Technical Progress Report	AST-311.7	Monthly Technical Progress Report	November 15, 1961
Monthly Technical Progress Report		Monthly Technical Progress Report	December 15, 1961
	3-14000/2R15	Monthly Technical Progress Report	January 15, 1962

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COURT INDINBER	DOCUMENI IIILE	RELEASE DATE
	Monthly Technical Progress Report	February 15, 1962
	Womthly Technical Progress Report	March 15, 1962
3-14000/2R30	Monthly Technical Progress Report	April 15, 1962
3-14000/2R33	Monthly Technical Progress Report	May 15, 1962
3-14000/2R46	Monthly Technical Progress Report	July 15, 1962
3-14000/2849	Monthly Technical Progress Report	August 15, 1962
3-14000/2R56	Monthly Technical Progress Report	October 15, 1962
3-14000/2860	Monthly Technical Progress Report	November 15, 1969
3-14000/3R31	Monthly Technical Progress Report	January 15, 1963
3-14000/3R35	Monthly Technical Progress Report	February 15, 1963
	Monthly Technical Progress Report	March 15, 1963
3-14000/3R44	Monthly Technical Progress Report	April 15, 1963
311.12	Nonthly Technical Progress Report	May 15, 1963
311.16	Menthly Technical Progress Report	July 15, 1963
311.18	Monthly Technical Progress Report	August 15, 1963
311.22	Houthly Technical Progress Benowt	

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DOCUMENT NUMBER	DOCUMENT TITLE	RELEASE DATE
311.25	Monthly Technical Progress Report	November 15, 1963
AST/EOR-12871	Quarterly Progress Hepout	November 1, 1960
AST/EGR-12872	Quarterly Progress Suport	December 15, 1960
AST/EIR-12888	Quarterly Progress Report	March 15, 1961
AST/EIR-13426	Quarterly Progress Report	June 15, 1961
AST-311.1	Quarterly Progress Separt	September 15, 1961
3-14000/2R23	Quarterly Progress Seport	December 15, 1961
3-14000/2R26	Quarterly Progress Report	March 15, 1962
3-14000/2R41	Quarterly Progress Seport	June 15, 1962
3-14000/2R51	Quarterly Progress Seport	September 15, 196g
3-14000/2864	Quarterly Progress Report	December 15, 1962
3-14000/3R41	Quarterly Progress Report	March 15, 1963
311.14	Quarterly Progress Report	June 15, 1963
311.20	Quarterly Progress Report	September 15, 1963
311.27	Quarterly Progress Report	December 15, 1963

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6.0 MINNEAPOLIS-HONEYWELL DOCUMENTS (Flight Control Electronics) 2-5142-2 U3 4289 2000 REV. 8/62 BOEINE REV SYM. SECT 5:0 PAGE 233

D.S. 15 FCSE Sensors 22 May 1961	11 February 1961 21 February 1961 1 March 1961 22 February 1961 10 March 1961 10 March 1961 20 April 1961 20 April 1961 20 April 1961 20 April 1961 21 May 1961 17 May 1961 18 May 1961 22 May 1961	Dyna Soar FCSE Nomenclature FCSE Computer MH 132 FCSE, Flight Control Data Measurement Equations of Motion for Preliminary Dyna Soar Analysis Freliminary Analysis Flight Conditions Redundancy Studies Redundancy Studies Reproval of Non-Standard Parts FCSE Computer FCSE Computer	
	19 June 1961	Wood Mockups for D.E. 1	D.S. 16
	19 June 1961		D.S. 16
	18 May 1961	FCSE Computer	D.S. 14
14 FCSE Computer	17 May 1961	Approval of Non-Standard Parts	
13 Approval of Non-Standard Parts 14 FCSE Computer	12 May 1961	Approval of Non-Standard Parts	D.S. 12
Approval of Non-Standard Parts Approval of Non-Standard Parts FCSE Computer	20 April 1961	Redundancy Studies	
11 Redundancy Studies 12 Approval of Non-Standard Parts 13 Approval of Non-Standard Parts 14 FCSE Computer	20 April 1961		D.S. 10
11 Redundancy Studies 12 Approval of Non-Standard Parts 13 Approval of Non-Standard Parts 14 FCSE Computer	20 April 1961		D.S. 9
Equations of Motion for Preliminary Dyna Soar Analysis Preliminary Analysis Flight Conditions Redundancy Studies Approval of Non-Standard Parts Approval of Non-Standard Parts Approval of Non-Standard Parts Approval of Non-Standard Parts	10 March 1961		
MH 132 FCSE, Flight Control Deta Measurement Equations of Motion for Preliminary Dyna Soar Analysis Preliminary Analysis Flight Conditions Redundancy Studies Approval of Non-Standard Parts Approval of Non-Standard Parts FCSE Computer	10 March 1961	Dyna Soar Weight Estimate	D.S. 7
Dyna Soar Weight Estimate MH 132 FCSE, Flight Control Data Measurement Equations of Motion for Preliminary Dyna Soar Analysis Preliminary Analysis Flight Conditions Redundancy Studies Approval of Non-Standard Parts Approval of Non-Standard Parts FCSE Computer	10 March 1961		
BAC Document D2-8088 Dyna Soar Weight Estimate MH 132 FCSE, Flight Control Data Measurement Equations of Motion for Preliminary Dyna Soar Analysis Preliminary Analysis Flight Conditions Redundancy Studies Redundancy Studies Approval of Non-Standard Parts Approval of Non-Standard Parts FCSE Computer	22 February 1961	Standard Dimensions for Computer Packaging	
5 Standard Dimensions for Computer Packaging 6 BAC Document D2-8088 7 Dyna Soar Weight Estimate 8 MH 132 FCSE, Flight Control Data Measurement 9 Equations of Motion for Preliminary Dyna Soar Analysis 10 Preliminary Analysis Flight Conditions 11 Redundancy Studies 12 Approval of Non-Standard Parts 13 FCSE Computer	1 March 1961	Mode Selector Switch	D.S. 4
# Wode Selector Switch Standard Dimensions for Computer Packaging BAC Document D2-8088 The Dyna Soar Weight Estimate WH 132 FCSE, Flight Control Data Measurement Equations of Motion for Preliminary Dyna Soar Analysis Preliminary Analysis Flight Conditions Redundancy Studies Redundancy Studies Approval of Non-Standard Parts PCSE Computer	21 February 1961	Dyna Boar Weight Estimate	
13 Prima Bear Weight Estimate 14 Note Selector Svitch 15 Estandard Dimensions for Computer Packaging 16 BAC Document D2-8088 17 Dyna Soar Weight Estimate 18 MH 132 FCSE, Flight Control Data Measurement 19 Bquations of Motion for Preliminary Dyna Soar Analysis 10 Preliminary Analysis Flight Conditions 11 Redundancy Studies 12 Approval of Non-Standard Parts 13 FCSE Computer	17 Pebruary 1961	FCSE Computer	D.S. 2
FCSE Computer Thus Bear Weight Estimate Wode Statetor Switch Estandard Dimensions for Computer Packaging BAC Document D2-8088 This is a result of Notion for Preliminary Dyna Soar Analysis Preliminary Analysis Flight Conditions Redundancy Studies Redundancy Studies Approval of Non-Standard Parts FCSE Computer	8 February 1961	Dyna Soar FCSE Nomenclature	
Dyna Soar FCSE Nomenclature FCSE Computer Prof. FCSE Computer Prof. Standard Dimensions for Computer Packaging Bac Document D2-8088 That Soar Weight Estimate MH 132 FCSE, Flight Control Data Measurement Bquations of Motion for Preliminary Dyna Soar Analysis Redundancy Studies Redundancy Studies Approval of Non-Standard Parts FCSE Computer		DOCUMENT TITLE	OCUMENT NUMBER

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DOCUMENT NUMBER	DOCUMENT TITLE	RELEASE DATE
D.S. 18	FCSE Computer	20 June 1961
D.S. 19	FCSE Sensors	20 June 1961
D.S. 20	Program Plan and Revised Organization Chart	21 June 1961
D.S. 21	Preliminary FCSE Wiring Schematic	21 June 1961
D.S. 22	Ground Rules for FCSE Cabling	26 June 1961
D.S. 23	Development Program Plan and Development Program Plan Comments	28 June 1961
D.S. 24	Technical Bevelopment Specifications	5 July 1961
D.S. 25	Toxicity Report	11 July 1961
D.S. 26	26 Volt Three Phase Power Supply to FCSE	14 July 1961
D.S. 27	Nomenclature Changes for the Corponents of the YG368Al FCSE	19 July 1961
D.S. 28	Development Test Plan	21 July 1961
D.S. 29	Quarterly Power Report	21 July 1961
D.S. 30	Angle of Attack Response Performance and FCSE System Complexity Tradeoffs	24 July 1961
D.S. 31	SK 74693, Rev. C; Computer, Dyna Soar	25 July 1961
D.S. 32	DEL Mockup	25 July 1961
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DOCUMENT NUMBER	DOCUMENT TITLE	RELEASE DATE
D.S. 34	Interconnecting Wiring MH 132 FCSE	27 July 1961
D.S. 35	Technical Development Specification	28 July 1961
D.S. 36	Assembly Mode Selector (MH No. CG130A)	4 August 1961
D.S. 37	PCSE Sensors	9 August 1961
D.S. 38	Approval of Non-Standard Parts	10 August 1961
D.S. 39	Dyna Boar Model 2035 Preliminary Pitch Axis Variable Cain System Analysis for Normal Asrodynamic Glider Flight	12 August 1961
D.S. 40	Dyna Soar Model 2035 Preliminary "G" Limiter Loop for Normal Aerodynamic Flight	18 August 1961
. D.S. 41	Manual Flight Centrol System Gains	18 August 1961
D.S. 42	Approval of Non-Standard Parts	18 August 1961
D.S. 43	Inter-Connection Wire Diagram SK 75071	18 August 1961
ው. ይ. ካት	Analytical Data Used in Dyna Sour Model 2050 Control System Studies (Confidential)	26 August 1961
D.S. 45	Control Mode Beleator (MH No. COL3CA)	24 August 1961
D.S. 46	FCHE Inertial Guidance System Interface	25 August 1961
D.S. 47	BG 197 Computer Filght Control Subsystem Electronics	25 August 1961
D.S. 40		7 Sestember 1961

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MAJOR SUBCONTRACTOR MINNEAPOLIS-HONEYWELL	DOCUMENT TITLE	Program Plan, Development Program Plan and Test Program Plan	Program Plan for Dyna Soar Body Bending Study	Technical Development Specification	GSE Development Program Plan and Comments	Simulation Devices Shipped 9/11/61 (Waybill No. 73-92-63)	Approval of Non-Standard Parts	Manual Flight Control System Gains	Auxiliary Ground Supplier Air Requirements - Log Item 188	Control Mode Selector (MH No. CG130A)	Servo Malfunction Detector	Bench Test Equipment Detail Specification	Servo Loop Electronics	Quarterly Report of FCSE Electronic and Non-Standard Parts List	AGE Development and Test Progrem Plan and Comments	Loading of Side Stick Transducers	Dyne Soar Program Plan, Development Test Plan and the Development Program	
	DOCUMENT NUMBER	D.S. 49	D.S. 50	D.S. 51	D.S. 52	D.S. 53	D.S. 54	D.S. 55	D.S. 56	D.S. 57	D.S. 58	D.S. 59	D.S. 60	D.S. 61	D.S. 62	D.S. 63	D.S. 64	

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	11 October 1901	During Abnormal 12 October 1961	12 October 1961	13 October 1961	13 October 1961	17 October 1961	2 Dyna Soar 1961	18 October 1961	2-924 23 October 1961	- DC Power Requirements 23 October 1961	24 October 1961	25 October 1961	26 October 1961	Z7 October 1961	27 October 1961	97 (ctober 1961
	Loan Simulator	Higher AC & DC Overvoltage Limits During Abnormal Electrical Systems Operation	Critical Design Review Procedures	Internal Program Detail Charts	BG 197A Computer Construction	Mode Selector	Reliability Program for the MH-132 Flight Centrel System Electronics	Mode Switching Transients	Comments to Beeing Letter 2-4452-2-924	Quarterly Electrical Power Report - DC Power Requirements	Maintenance Spare Parts Lists	Honeywell Dyna Soar Drawings	Approval of Non-Standard Parts	Approval of Non-Standard Parts	FCSE Sensors	Toylotty Study
DOCUMENT NUMBER	D.S. 65	D.S. 66	D.S. 67	D.S. 68	D.S. 69	D.S. 70	D.S. 71	D.S. 72	D.S. 73	D.S. 74	D.S. 75	D.S. 76	D.S. 77	D.S. 78	D.S. 79	

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D.S. 81	Data Heeded for Dyna Sonr Body Bending Study	27 October 1961
D.S. 82	Anticipated Tolerances for Normal Load Pactor Limits	2 November 1961
D.S. 63	BG 197 Telemeter Tie-In Paint Description	3 Hovember 1961
D.S. 84	Critical Design Baylow Bench Level Test Equipment	3 November 1961
D.S. 85	Bench Level Test Squipment	3 November 1961
0.5. 86	Bench Level Test Equipment	3 November 1961
D.S. 87	Construction Details of BG 197 Computer	3 November 1961
D.S. 88	Transducer & Valve Phasing Information Required	7 November 1961
D.S. 89	Bench Level Test Equipment	8 Bevenber 1951
0.5. 90	Technical Development Specifications	8 Rovember 1961
D.C. 93	Technical Development Specifications	16 november 1951
D.S. 92	Serve Loop Amplifter Demodulator Characteristics	16 November 1961
p.s. 93	Freliminary Vibration Tests on Dyna Soar Computer Chassis	20 November 1961
D.5. 94	Quarterly FUSE Released Drawings, Schematics, and Specification Report	21 November 1961
D.S. 95	Revision of Normal Load Pactor Regative Limit	21 November 1961
. 6	most after Beneficements for the Dane Sonr PCSE	21 November 1961

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V. 8/62	DOCUMENT NUMBER	DOCUMENT TITE	RELEASE DATE
·	D.S. 97	Minutes of B-H Technical Coordination Meeting 11-10-61	22 November 1961
·	D.S. 98	Heat Transfer Characteristics of the Dyna Soar FCSE Computer	22 November 1961
	D.S. 99	Schematic of TARS Modulator	27 November 1961
	D.S. 100	Actuator Transducer Malfunction Detector	29 November 1961
	D.S. 101	Possibilities for Dyna Soar Glider Weight Reduction	29 November 1961
	D.S. 102	Preliminary Actuator Transducer Tolerance Requirements	29 November 1961
	D.S. 103	MH-132 FCSE Telemetry Requirements	30 November 1961
	D.S. 104	Interconnecting Wiring List #5753-1	1 December 1961
	D.S. 105	Bench Level Test Equipment Drawing	4 December 1961
	D.S. 106	Dyna Soar Model 2050 Reduced Aerodynamic Data (Confidential)	4 December 1961
	D.S. 107	Cooling Tests of Dyna Soar FCSE Computer Chassis	4 December 1961
	: D.S. 108	Computer Design	4 December 1961
	D.S. 109	Servo Malfunction Detector Development	22 December 1961
	D.S. 110	Reference Data on Pilot Acceleration Sensitivity	22 December 1961
	D.S. 111	Manual Flight Control System Gains	22 December 1961
	D.S. 112	Technical Development Specifications	22 December 1961
2-5142	D.S. 113	Booster Interface (TARS) AC & DC Signal Imputs	22 December 1961

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ME-132 FCSE Telemetry Requirements Recent ME-132 FCSE Isteral Analysis Studies ME-132 FCSE Telemetry Requirements ME-132 FCSE Telemetry Requirements Preliminary Simplified Roll Axis Equations with Body Bending and Tall-Wag-Dog Effects Additional Data Necessary for Body Bending Study Resulting from Sensor Locations in Pilot Compartment Dyna Soar Pitch Axis, Integrating Versus Non-Integrating Elevon Actuator Study Reliability Effort Suggested Recording of Paragraphs in the Doeling Company Document R2-7483-2 Suggested Recording of Paragraphs in the Doeling Company Document R2-7483-2 Suggested Recording of Paragraphs in the Doeling Company Document R2-7483-2 Suggested Recording of Manual-Direct Signals Daring Augmented Company Document R2-7483-2 Suggested ME-128-128-128-128-128-128-128-128-128-128	DOCUMENT NUMBER	DOCUMENT TITLE	RELEASE DATE
Recent MH-132 FCSE Interal Analysis Studies MH-132 FCSE Telemetry Requirements Preliminary Simplified Roll Axis Equations with Body Bending and Tail-Wag-Dog Effects Additional Data Necessary for Body Bending Study Resulting from Sensor Locations in Pilot Compartment Dyna Soar Pitch Axis, Integrating Versus Non-Integrating Elevon Actuator Study Reliability Effort Sugmanted Franching or Parametry in the Boeing Company Document E2-7483-2 Suttoining of Manual-Direct Signal Buring Augmented Control, MH 132 FCHE Moneyvell Dyna Boar Dravings FORGIL Control MH 132 FCHE MONEYMENT A Computer, Fight Control Subsystem Electronics Proposal BODSA Bitch Moneyvell Control Study of Tail-Wag-Dog and Structural Bifects of Tainst Vector Nozales	D.S. 129		11 January 1962
131 MH-132 FUCEE Telemetry Requirements 132 Preliminary Simplified Roll Axis Equations with Body Bending and Tail-Wag-Dog Effects 133 Additional Data Necessary for Body Bending Study Resulting from Sensor Locations in Pilot Compartment 134 Dyna Soar Pitch Axis, Integrating Versus Non-Integrating Elevon Actuator Study 135 Reliability Effort Gengary Dogment P2-7483-2 137 Company Dogment P2-7483-2 138 Honeyvell Dyna Boar Draving 139 Tougle Fattch MB 25308-27 (CBB3R2) 140 Externice Proposal BOSYA 141 Date Necessary for Study of Tail-Wag-Dog and Structural 141 Effects of Trust Vector Nozzles	S. 130	32 FCSE Lateral Analysis	12 January 1962
Preliminary Simplified Roll Axis Equations with Body Bending and Tail-Wag-Dog Effects Additional Data Necessary for Body Bending Study Resulting from Sensor Locations in Filot Compartment By Reliability Effort Suggested Revording or Paragraphs in the Bosing Company Dotument E2-7483-2 Sultability Bfort Suggested Revording or Paragraphs in the Bosing Company Dotument E2-7483-2 Sultability Bfort Suggested Revording or Paragraphs in the Bosing Company Dotument E2-7483-2 136 Sultability MF 132 Fort Sultability MF 132 Fort 137 Sultability MF 132 Fort 138 Tougle Evitten MS 25308-27 (CSB93822) 140 E7 77747 Nov. A Computer, Fiight Control Embryston Rectronics Proposal Bd197A 141 Date Necessary for Study of Tail-Wag-Dog and Structural Effects of Tirust Vector Nozzles			12 Jamery 1962
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Dyna Soar Pitch Axis, Integrating Versus Non-Integrating Elevon Actuator Study Reliability Effort Gungarated Reverding of Paragraphs in the Docking Company Document D2-7483-2 Britching of Manual-Direct Signals During Augmented Control; ME 132 Full Honeyvell Dyna Boar Dravings Togals Ewitch MS 25308-27 (GS89362) Ex 75747 Nov. A Computer, Flight Control Eubsystem Electronics Proposal Bd197A Date, Necessary for Study of Tail-Wag-Dog and Structural Effects of Trust Vector Nozzles	S. 133	Bendir Pilot	19 January 1962
Reliability Effort Suppressed Revording of Paragraphs in the Booting Company Document D2-7483-2 Switching of Marmal-Direct Signals During Augmented Control; ME 132 Fune Homeyvell Dyna Boar Drawings Fougle Switch ME 25308-27 (CS8936K2) SK 75747 Nov. A Computer, Flight Control Subsystem Slectronics Proposal Bolly7A Date. Necessary for Study of Tail-Wag-Dog and Structural Effects of Thrust Vector Nozzles	D.S. 134		19 January 1962
Suggested Revording of Paragraphs in the Booting Company Document D2-7483-2 By tening of Manual-Direct Signals During Augmented Control; ME 132 FUNE Moneywell Dyna Boar Drowings Tougle Switch MS 25308-27 (CS88382) Ex 75747 Nov. A Computer, Flight Control Subsystem Electronics Proposal Bill97A Date. Necessary for Study of Tail-Wag-Dog and Structural Effects of Thrust Vector Nozzles	s. 135		19 January 1962
Switching of Manual-Direct Signals During Augmented Control, ME 132 Pub. Honeyvell Dyna Boar Drawings Tougle Gwitch MS 25308-27 (CSB33E2) Ex 75747 Mov. A Computer, Flight Control Subsystem Sloctronics Proposel Bd197A Date Necessary for Study of Tail-Wag-Dog and Structural Effects of Thrust Vector Nozzles	D.S. 136	Suggested Revording of Paragraphs in the Booing Company Doument D2-7483-2	19 January 1962
139 Tougle Guttch MS 25308-27 (CSB83EX2) Ex 75747 Nov. A Computer, Flight Control Bubaystem Blockromics Proposal Bd197A Date, Necessary for Study of Tail-Wag-Dog and Structural Effects of Transt Vector Nozzles	.s. 137	Switching of Manual-Direct Signals During Augmented Control, MR 132 FURE	23 January 1962
139 Tougle Gritch MS 25308-27 (CSB83EX2) 140 EX 17747 Nov. A Computer, Flight Control Subsystem Blockromics Proposal Boll97A 141 Date Necessary for Study of Tail-Wag-Dog and Structural Effects of Transt Vector Nozzles	s. 138	Honeywell Dyna Boar Drawings	23 January 1962
140 Effects of Thrust Vector Nozzles	.S. 139	Tougle Switch MS 25308-27 (CSB83CK2)	29 January 1962
Date Necessary for Study of Tail-Wag-Dog and Structural Effects of Trust Vector Nozzles		SK 75747 Nov. A Computer, Flight Control Subsystem Slactronics Proposal B0197A	30 January 1962
	.S. 141	Date Necessary for Study of Tail-Wag-Dog and Structural Effects of Thrust Vector Nozzles	30 January 1962

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	D.S. 142	FCSE Interface Data	31 January 1962
	D.S. 143	Interconnecting Wiring List H-5753-1	1 February 1962
	D.S. 144	Test Point Data MH-132 FCSE	1 February 1962
	D.S. 145	Panel and Rack Configuration for D2-7483-2, BTE-FCSE	2 February 1962
	D.S. 146	D2-7483, BTE-FCSE Revised 1-3-62	2 February 1962
	D.S. 147	Trim Hardover Failures	6 Pebruary 1962
	D.S. 143	Quarterly Reliability Report	6 February 1962
	D.S. 149	Sudder/Fedal Transfer Function	6 February 1962
	D.S. 150	D2-80065 "Aerodynamic Stability & Control Date, Nodel Shi-2050", dated December 20, 1961	13 February 1962
	D.S. 151	MM-132 FCSS Pailure Monitoring Techniques	13 February 1962
	D.S. 152	Interconnecting Wiring List H-5753-1	14 February 1962
	D.S. 153	FCSE Computer Fuses	15 February 1962
	D.S. 154	Solder Joint Inspection	15 February 1962
	D.S. 155	Servo Test Consoles	16 February 1962
-	D.S. 156	Recommended Training Plan for the MH 132 FCSE	16 February 1962
2-8142-2	D.S. 267	Dyna Soar FCSE Switching Logic for Second Lateral Accelerometer Failure	16 February 1962

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D.S. 158	Power Consumption MH 132 PCSH	19 February 1942
D.S. 159	Tranmittal of Drawings	28 February 1962
p.s. 160	Dyna Soar Pitch Axis, Preliminary Phugoid and Thrust Vector Control Analyses	2 March 1962
D.S. 161	Proposed Materials and Pinishes - MH 132 Pust	2 March 1962
D.S. 162	Transmittal of AGE Afroraft and Servo Simulation Schematics and Information	2 March 1962
D.S. 163	Serve Test Contoles	5 March 1962
D.S. 164	Technical Development Specifications	5 March 1962
D.S. 165	Proposed Incorporation of Dial Control for Pitch Axis Trim.	6 March 1962
D.S. 166	Elevon Deflection Electronic Limiting and Switching Requirements at Landing	6 March 1962
D.S. 167	Power Consumption MH 132 FCSE	6 March 1962
D.S. 168	BG 197 FCSE Computer Outline	8 March 1962
D.S. 169	Calculated Error Tolerances for Command Signal Limiter Circultry	8 March 1962
D.S. 170	M-H Reliability Plan	8 March 1962
D:S: 171	Honeywell Comments on 6° of Freedom Simulator	8 March 1962

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D.S. 172	Minneapolis-Honeywell Request for Parts Approval	13 March 1962
D.S. 173	Deviations to Applicable Documents Log Item 206	13 March 1962
D.S. 174	Boeing/M-H Technical Coordination Meeting Minutes of Feb. 6-8, 1962	19 March 1962
D.S. 175	AGE Analog Simulation	20 March 1962
D.S. 176	Transmittal of AGE Aircraft	20 March 1962
D.S. 177	Cosrected Coupled Mode Longitudinal Transfer Functions	21 March 1962
D.S. 178	Non-Standard Part Approval Request Forms MIDG30 through 39	23 March 1962
D.S. 179	Functional Diagram and Transfer Function of Rand Pass Filter and Oain Changer	23 March 1962
D.S. 180	Flight Recerdings - X-15	23 March 1962
D.S. 181	MR 132 FCHE Analytical Block Diagrams	23 March 1962
D.S. 182	Interconnecting Wiring Diagram - H57531A	23 March 1962
D.S. 183	Comment to Boeing Letter 2-4452-2-1640	27 March 1962
D.S. 184	Termination of Shielded Wires	27 March 1962
D.S. 185	Filght Control Subsystem Electronics Failure Monitoring Techniques	28 March 1962
D.S. 136	Aerodynamics Uncoupled Longitudinal Pitch Rate to	28 March 1962

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B.S. 187	Reproductble dony of H-5753-1A Interconnecting Wiring Diagram	30 March 1962
D.S. 188	Quarterly Report of POSE Electronics and Non-Standard Perts Idst	3 April 1962
p.5. 189	Root Locus of Pitch Rate Loop Using Coupled Bending Mode Data	3 April 1962
p.8, 190	Honeywell Welding Specification	3 April 1962
D.S. 191	BG197A FCSE Computer Outline	5 April 1962
D.8, 192	Manual Flight Control System Cains	9 April 1962
p.s. 193	Quarterly FCSE Released Bravings, Schematics, and Specification Report	9 April 1962
D.S. 194	Radder Speed Brake Mechanization	10 April 1962
D.S. 195	Flight Control Subsystem Electronics Computer Outline	12 April 1962
D.S. 196	Functional Schematics and Wiring Diagrams for AGE Simulations	12 April 1962
D.S. 197	Clarification of Boeing Review of M-H Drawing	12 April 1962
D.S. 198	Boeing Letter 2-4452-2-1765 dated 2 April 1962	12 April 1962
D.S. 199	Pitch Bias Trim Potentiometers, Servo Valve Impedance, Rate Feedback Transducer Phase Shift and Servo Amplifier Gain	13 April 1962
D.S. 200	Technical Development Specification	13 April 1962

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<u> </u>	D.S. 201	Definition of Flight Conditions for the Dyna Soar Analysis Based on the Aerodynamics and Stability and Control Data of Model 844-2050D (Confidential)	13 Apríl 1962
	D.S. 202	Normal Acceleration Loop Transfer Functions Using Coupled Bending Mode Data	18 April 1962
	D.S. 203	Roll Rate Limiting and CSL Power Supply	23 April 1962
	D.S. 204	CG138A1 Control Mode Selector Panel Lettering	24 April 1962
	D.S. 205	Assumptions Inherent in Computer Study Equations of Motion	27 April 1962
	D.S. 206	Weight of BG197 FCSE Computer	30 April 1962
	p. s. 207	Nitric Acid Test for FCSE Connectors	1 May 1962
	D.S. 208	Glider Control After Touchdown	3 May 1962
	D.S. 209	Proposed Reaction Control Switching Configuration	3 May 1962
	D.S. 210	Assumption and Result in MH Reaction Control Fuel Consumption Studios	7 May 1962
	D.S. 211	Root Locus Plots of Pitch Rate Loop Using Coupled Bending Hode Data	7 May 1962
	D.S. 212	Spood Breke and Runder Trailed/Faired Mechanization	7 May 1962
	D.S. 213	Proposed Incorporation of Pitch Dial Trim	7 May 1962
2-\$142-	D.S. 214	System Mechanization Diagrams	7 May 1962

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D.S. 215	Honeywell Aero Report 2546-TR9	7 May 1962
D.S. 216	Gain Changer and Control Surface Residual Motion Periods	10 May 1962
D.S. 217	Product Identification System	10 May 1962
D.S. 218	Functional Diagram and Transfer Function of Band Pass Filter and Gain Changer	10 May 1962
D.S. 219	Technical Development Specification	10 May 1962
D.S. 220	BG197Al Computer Outline	10 May 1962
D.S. 221	Non-Standard Part Approval Request Forms MI DS 40 through 43	14 May 1962
D.S. 222	Lead Network Amplifler & Amplifler Limiter Assemblies	14 May 1962
D.S. 223	DUG 1484A1 Test Console	14 May 1962
D.S. 224	Transfer Functions of the Longitudinal Free Airplane Using Coupled Bending Data with Structural Damping Added	14 May 1962
D.S. 225	DUG1484A1 E1ght Channel Thrust Vector Test Console	15 May 1962
D.S. 225	Additional Relays Required for Touchdown Mechanization	18 May 1962
D.S. 227	Accelerometer Self Test	22 May 1962
D.S. 228	Transfer Functions for F101A Airplane	22 May 1962
D.S. E. 9	Mechanization Diagrams	22 May 1962
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D.S. 230	חת שליו שליו	23 May 1962
D.S. 231	Transfer Functions of the Longitudinal Free Airplane and Normal Acceleration Loop Using Coupled Dending Data with Structural Damping Added	23 May 1962
D.S. 232	Mi Boston Division Reliability Program	24 May 1962
D.S. 233	Summary of Current 3 Degree-of-Freedom Analog Simulations and Aero Derivatives	24 May 1962
D.S. 234	FCSE AGE Bench Test Set Drawings	29 May 1962
D.S. 235	Negative Load Factor Limiting	29 May 1962
D.S. 236	Physics-of-Failure Analysis of Standard Price Parts	29 May 1962
D.S. 237	Description of Six Degrees-of-Freedom Digital	29 May 1962
D.S. 238	DUG 1483A1 Two Channel Surface Servo Test Console	31 May 1962
D.S. 239	Servo Malfunction Detector	1 June 1962
D.S. 240	Desirability and Feasibility of Latfhing Out Gyro, Stick, Pedal and Lateral Accelerometer First Failures	1 June 1962
D.S. 241	G. Limiter Normal Accelerometer Temperature Environment	6 June 1962
D.S. 242	AEA Report No. 101, "Review of Filight Control System Electronics Froposed by MI Regulator Company for Dyna	7 June 1962

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թ.Տ. ՀԿ3	Flight Control Su ^r system Electronics Fallure Monitoring Techniques	8 June 1962
D.S. 244	Wiring List	15 June 1962
D.S. 245	On-off Logic Servo Malfunction Detector Description	20 June 1962
D.S. 246	DUG 1485Al Thrust Vector Servo Test Console	26 June 1962
D.S. 247	Critical Design Review Meeting Minutes	26 June 1962
D.S. 248	DUG 1485Al Eight Channel Thrust Vector Test Console	26 June 1962
D.S. 249	RFI Bonding of Sensor Packages	26 June 1962
D.S. 250	Transmittals of Failure Mode Analysis	28 June 1962
D.S. 251	Hot Glider Pitch Rate Transfer Functions Using Coupled Mode Data	28 June 1962
D.S. 252	Comparison of Six-Degree-of-Freedom Simulation Results	29 June 1962
D.S. 253	DUG 1483Al Two Channel Surface Servo Test Console	2 July 1962
D.S. 254	Load Simulation for the Prototype Actuator	3 July 1962
D.S. 255	DUG 1483Al Surface Servo Test Console	3 July 1962
D.S. 256	Quarterly Report of FCSE Electronic and Non-Standard Parts List	3 July 1962
D.S. 2) [Limit Switching Mechanization	10 July 1962

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D.S. 250 Root Locus Flots for Pitch. Rate Loop Plus Preliminary Compensation Using Glider Alone Coupled Mode Data D.S. 259 Flight Control Subsystem Electronics - Reaction Control Interface and Redundancy Concept D.S. 260 Longitudinal Performance Summary D.S. 262 Root Locus Plots for Pitch Rate Loop Plus Compensation Utilizing Hot Glider Coupled Mode Data D.S. 268 Boeing Approval of MH 132 FCSE Material Boeing Approval of MH 132 FCSE Material D.S. 266 Boeing Approval of MH 132 FCSE Material D.S. 266 Boeing Approval of MH 132 FCSE Material D.S. 266 Boundary of Limiting Negative GSL Function D.S. 269 Boundary of Limiting Negative GSL Function Random Vibration Analysis D.S. 270 Random Vibration Analysis D.S. 271 Flight Control Subsystem Electronics Fallure Monitoring Techniques D.S. 272 BG 197 FCSE Computer Interim Cooling Gas Requirements	DOCUMENT TITLE	RELEASE DATE
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260 Longitudinal 261 Dyna Soar Moc 262 Root Locus Pl Utilizing Hot 263. Boeing Approv 264 BG 197A FCSE 265 Representativ 266 BG 197 FCSE C 269 BG 197 FCSE C 269 Boundary of I 270 Random Vibrat 271 Random Vibrat 272 BG 197 FCSE C	cs - Reaction Control	12 July 1962
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262 Root Locus PJ 263. Boeing Approv 264. Br 197A FCSE 265. Bright FCSE 266. Rudder & Elev 267. Dyna Soar Moë 268. BG 197 FCSE 269. Boundary of I 270. Random Vibrat 271. Flight Control Monitoring Te 272. BG 197 FCSE BG 197 FCSE C	Aerodynemic Data	13 July 1962
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	ng Gas Requirements	26 July 1962

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Untransformed Lateral Roots, Supersonic Cases - Glider Alone Addendum to Honeywell Aero Report 2546-Tk9, Rev. A, dated June 1, 1962 "Initial Aero Space Ground Equipment (AGE) and Telemetry Test Point Data Report" Control Surface Activity Comparison, Linear vs Adaptive Quarterly FCSE Released Drawings, Schematics, and Beta Limiter Servo Amplifier TV Servo Amplifier MAJOR SUBCONTRACTOR MINNEAPOLIS-HONEYWELL Test Report APS 2764 DUG 1484Al Test Console FCSE Components Parts Fallure Rate Data Surface Unlock Switch Mechanization Hydraulic Actuator Wiring Diagram Augmentation Systems Specification Report Task IV Spares FCSE Computer DOCUMENT NUMBER 275 279 D.S. 278 D.S. 280 B.S. 273 D.S. 276 D.S. 282 D.S. 274 D.S. 277 D.S. 281 D.S. 283 D.S. D.S.

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للللللل	DOCUMENT NUMBER	DOCUMENT TITLE	RELEASE DATE
	D.S. 320	Tech Lab Me chanizatio n Drawings	24 September 1962
	D.S. 321	CSL and CSL Monitors Mechanization and Performance	24 September 1962
	D.S. 322	Updated Control System Functional Block Diagrams	24 September 1962
	D.S. 323	System Level Test of the Adaptive Network Comparator	25 September 1962
	D.S. 324	Elevon Servo Amplifier Redesign	26 September 1962
	D.S. 325	Release of X-15 Information to Boeing	26 September 1962
	D.S. 326	X-20 (Dyna Soar) FCSE Frequency Response Characteristics	26 September 1962
	D.S. 327	Minneapolis-Honeywell Aero Report 2546-TR9	26 September 1962
	D.S. 328	Lateral Performance Summary (Confidential)	26 September 1962
	D.S. 329	DUG 1485A1 Test Console Spares	28 September 1962
	D.S. 330	Flight Control Telemetry Measurement Requirements	28 September 1962
	D.S. 331	Lateral Performance Summary with Body Bending Compensation	28 September 1962
4	D.S. 332	Booster TARS Modulator	28 September 1962
	D.S. 333	Comments to Boeing Drawing 25-80221 Sheets 1H, 2D, 3D, dated 8-7-62 and 4A dated 8-14-62	28 September 1962
· · · · · · · · · · · · · · · · · · ·	D.S. 334	Approval Request for Use of Non-Standard Electronic Parts	1 October 1962
2-5142-2	ررئ B.S.	Limiter Switching	1 October 1962

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D, S. 336	Revised X-20 (Dyna Soar) Analysis Flight Conditions	2 October 1962
D.S. 337	Quarterly Report of FCSE Electronic and Non-Standard Parts List	4 October 1962
D.S. 338	Up-Logic Gain Changer Block Diagrams	4 October 1952
D.S. 339	Deterioration of Variable Attenuator Performance Dust to Distributed Capacitance in Long Shielded Test Loads	4 October 1962
D.S. 340	Technical Development Specifications	5 October 1962
D.S. 341	Telemetry Points EES019 and EESO92	5 October 1962
D.S. 342	Comments on Review of M-H Process Spec E.S. 13129 and X-29 (Dyna Soar) Welded Module Brawings	11 October 1962
D.S. 343	Proposal for Automatic Mode Reaction Centrol Gain Change Switch	8 October 1962
D.S. 344	PGSS Test Document Plan	16 October 1962
D.S. 345	PERT	9 October 1962
D.S. 346	Analog Documentation of Lateral Performance Summary with Body Bending Compensation (Conf.)	9 October 1962
D.S. 347	F101 Surface Activitý	11 October 1962
D.S. 348	X-15 MTBF Data (Confidential)	12 October 1962
6€€ - S. O	Flight Control Subsystem Electronics Technical Coordination Meeting Minutes September 4-6, 1962 at Boeing, Seattle	16 October 1962

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MAJOR SUBCONTRACTOR MINNEAPOLIS-HONETWELL	DOCUMENT TITLE	Card Test Procedures for Task IV Spares	Comments on FCSE Interface Wiring Data	Servo Valve Package Fallure	Variable Attenuator Summing Roll & Yew	Cain Computer Comparator Adaptive Network Comparator	Initial Results of Honeyvell Body Denking Parsmetric Study	Flight Control Subsystem Electronics Technical Coordination Meeting (TCM) Minutes - September 1-6, 1962 at Boeing, Seathle	Accountable Tooling Changes	POSE Computer Ground Handling Attachments	Updated Control System Punctional Block Diagrams	Technical Coordination Meeting Minutes	FCSE Primary A.C. Power	X-20 (Dyna Soar) Analog Computer Simulation Diagrams	M-H FCSE Process Specification E.S. 13129 - Resistance Welding of Leadwire	GG208 Dyna Soar (X-20) Accelerameter Package	System Level Test Points - Auto Engage and Gain Computer
U2 4200 2000 RI	DOCUMENT NUMBER	D.6. 365	D.S. 366	D.S. 367	3 68	D.S. 369	D.S. 370	D.S. 371	D.S. 372	D.S. 373	D.S. 374	D.S. 375	D.S. 376	D.S. 377	D.S. 378	D.S. 379	D.S. 380

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V. 0/62	DOCUMENT NUMBER	DOCUMENT TITLE	RELEASE DATE
	D.S. 381	Proposed Side Stick Sensitivity Control	30 November 1962
	D.S. 382	Boost Air-Launch and Selectable Gain Pre-engage Gain for the FCSE Gain Computers	30 Nevember 1902
	D.S. 383	Revised FCSE Interface Wiring Tab Run	4 December 1962
	D.S. 384	Correction to X-20 (Dyna Soar) Model 2050E Reduced Aerodynamic Data	4 December 1962
	D.S. 385	Summary of Honeywell Abort Condition Study Assumptions	4 December 1962
	D.S. 386	Non-Standard Parts Approval Submittal	6 December 1962
	D.S. 387	FCSE Reliability Program Plan; Revised MH Report 2546-TR-2, Supplement 1, dated 5 October 1962	6 December 1962
	D.S. 388	Proposed Side Stick Sensitivity Control	11 December 1962
	D.S. 389	Selectable Gain Pre-Engage Gain for the FCSE Gain Computer	12 December 1962
	D.S. 390	Surface Servo Test Console Modification	12 December 1962
	D.S. 391	Preliminary Tech Lab Unit FCSE Interface Wiring Tab Run	12 December 1962
	D.S. 392	Boeing Drawing 25-80221, All Sheets	14 December 1962
·	D.S. 393	Flight Control Subsystem Electronics Wiring Data	19 December 1962
1	D.S. 334	Nameplates for Tech Lab Built Units	19 December 1962
-5142-2	D.S. 395	Quarterly Electronics and Non-Standard Parts List	26 December 1962

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V. 0/62	DOCUMENT NUMBER	DOCUMENT TITLE	RELEASE DATE
	D.S. 396	Non-Standard Parts Approval Submittal	26 December 1962
	D.S. 397	Mil PCSE Drawings	26 December 1962
	D.S. 398	System Level Test Points	28 December 1962
	D.S. 399	PCSE Prinary AC Power	28 December 1962
	D.S. 400	Moot Locus Stability Analysis of the Lateral Antisymmetric Aeroelastic Abort Vehicle	28 December 1962
	D.S. 401	Gyro Crossfeed on Single Failure	2 January 1963
	D.S. 402	FCSE Switch Technique Modifications	2 January 1963
	D.S. 403	Minutes of Boeing M-H Technical Coordination Meeting of November 13, 14, 15, 1962	4 January 1963
	D.S. 404	Results of X-20 (Dyna Soar) Pitch Axis Body Bending Parametric Study	15 February 1963
 	D.S. 405	Analysis of X-20 (Dyna Soar) Orbital Performance & Reaction Control Fuel Consumption	14 January 1963
	D.S. 406	Updated Version of Toxicity Study (Technical Memo No. 276-1)	10 January 1963
	D.S. 407	Interference Test Plan	10 January 1963
	D.S. 408	MH FCSE brawings	M January 1963
	D.S. 1.9	Failure Analysis of CSL Schedular and Demod-Amp	11 January 1963
-8142-2	D.S. 410	"Auto Out" Light Mechanization	11 January 1963

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DOCUMENT NUMBER	DOCUMENT TITLE	RELEASE DATE
3.5. 411	Summary of M-H FCSS Amalymin Studies for the in Preparation of Boeing Report of the Air Force	14 January 1963
D.S. 412	Lateral Performance Summary	15 January 1963
p.s. 413	Quarterly RESH Released Drawings, Schemation and Specification Report 2946-TH18	15 January 1963
D.S. 434	Tech Lab Interface and Test Point List for 10368al PCSE	16 January 1963
D.B. 415	Technical Development Specifications	22 January 1963
D.S. 416	Updated Control System Functional Block Diagrams	23 January 1963
D.S. 417	MH PCSR Drawing	23 January 1963
D.S. 418	Card Test Procedures for Task XI Spares	30 January 1963
D.S. 419	Lateral Axis, Body Bending Parametric Study	31 January 1963
p.S. 420	Revision C of MH Aero Report 2546-TH9, dated February, 1963	5 February 196
D.S. 421	PERC Metwork	8 February 196
D.S. 422	Modification of MH Test Console at Tenco	13 February 196
D.5. 423	Minutes of B/MS TCM on November 13-15, 1962	13 February 196
D.S. 424	Drawings and Wiring List for Yech Lab FESE Computer	15 February 196
D.S. 425	Tech Mene 276-1	15 February 196:
D.S. 426	Longitudinal Performance Summary (2050E Data)	19 February 196

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D.S. 427	Repair of Test Console Demodulator-Amplifier	22 February 1963
D.S. 428	Current Results of Honeywell Pitch Axis Abort Studies	22 February 1963
D.S. 429	Triple 3-Phase 115 VAC FCSE Imput Power	22 February 1963
D.S. 430	Acceptance Test Report for 952820-1A Servo	22 February 1963
D.S. 431	Root Locus Stability Analysis of Longitudinal Symmetric Aeroelastic Abort Vehicle	22 February 1963
D.S. 132	Mockup to BTE Differences	25 February 1963
D.S. 433	Shielded Wire in the X-PO. (Dyna Soar) FCSE	25 February 1963
D.S. 434	Heet Locus Stability Analysis of Automatic Mode and and Command Signal Limiter Loop for Glider Alone with Symmetric Aeroelastic Data	26 February 1963
D.S. 435	ICS Sideslip Accuracy Effects upon Reaction Control Fuel Consumption	27 February 1963
D.S. 436	Differences Between 6020T and 6020M Epoxy	1 March 1963
D.S. 437	X-20 (Dyna Scar) Eleven Actuator Position Transducer (LVDF) Failure	7 March 1963
D.S. 438	Decement #AEBH 62-10, X-20 (Dyna Soar) Master Data Mosnurements List, 2/11/63	7 March 1963
D.S. 39	Results of Honevvell Abort Study	7 March 1963

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D.S. 440	FCSE Manual Flight Control System Drawings	7 March 1963
D.S. 441	Boeing Manual Flight Control System Electrical Wiring Revisions	7 March 1963
D.S. 442	Non-Standard Parts Approval Submittal	11 March 1963
D.S. 443	Tech Lab System Configuration	12 March 1963
D.S. 444	Revision "D", of MH Aero Report 2546-TR9, dated March 15, 1963	18 March 1963
D.S. 445	Minutes of Boeing-MH TCM, March 12, 13, 14, 1963	20 March 1963
D.S. 446	Transistorized Servo Amplifier Data	20 March 1963
D.S. 447	Rudder Servo Phasing	22 March 1963
D.S. 448	Root Locus Stability Analysis of Pitch Automatic Mode for the Longitudinal Symmetrical Abort Vehicle	5 Apr11 1963
D.S. 449	Non-Standard Parts Approval Submittal	27 March 1963
D.S. 450	Quarterly Report of FCSE Electronic & Non-Standard Parts List	29 March 1963
D.S. 451	Tech. Mamo 276-1 (Item 122)	1 April 1963
D.S. 452	FCHE Manual Flight Control System Drawings	1 April 1963
D.S. 453	Results of Additional X-20 Body Bending Parametric Studies of Pitch Axis Configuration	5 April 1963
D.S. 454	Effects of Storm Arrhulance on Y. 20 Interest Douglameness	9 Access 1063

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20 4		
Depo +77	Gain computer Study with a Flaxible Vehicle	8 April 1963
D.S. 456	Minutes of MH-Boeing Reliability Conferences of March 19-22, 1963	5 April 1963
D.S. 457	Document Plan	5 April 1963
D.S. 458	Technical Development Specifications	8 AL-11 1963
B.S. 459	Tech Lab Model FCSR Computer	8 April 1963
D.S. 460	Serve Malfunction Detector Logic	8 Apr11 1≤€3
D.S. 461	Re-Wedification of the Second ING 1483A1 X-20 Serve Test Console Located at Temco Electronics, Arilngton, Texas	9 April 1963
D.S. 462	Non-Standard Parts Approvel Submittel	11 April 1963
D.S. 463	Revised Drawings of Surface Servo Test Console	11 Apr11 1963
D.S. 464	X-20 Specifications D2-7483-2 and D2-7483-3	16 April 1963
D.S. 465	Quarterly FCSE Drawings, Schematics and Specifications Report 2546-7219 - P.O. Item 1.1.11	16 April 1963
D.S. 466	Tech Lab Model Control Mode Selector and Control Trim Selector	18 April 1963
D.S. 467	Re-Modification of the X-20 Sorvo Electronics Test Consoles at Tenco Electronics	19 April 1963
D.S. 468	Request for OLCHM Analog Simulation Disgrams for use in Prop-	1964 Trees 00

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Flight Control Subsystem Electronics Bench Test Equipment (BTE) Glider Wiring Harness Characteristics for Interconnecting FCSE Components Request for Deviation and Partial Deviation from Specs Comparison of Gain Computer Performance with Prototype and Simulated Serve Actuators Mosing Failure Report No. 053055 dated April 19, 1963 ioneyvell Commont to Boeing Action Item 7c (Mach 103) Tech Lab Control Trim Selector Circuit Modification Revision of Manual Flight Control System Diagrams Revised Drawings of Surface Servo Test Console Servo Amp Pailure Report O4-1223, Log Item 382 Filtht Conditions for Use in Determination of Filot Selectable Fixed Gains MAJOR SUBCONTRACTOR MINNEAPOLIS-HONETHELL Honeywell Engineering Specification 13129 DOCUMENT TITLE Honeywell Servo Actuator Response Data Pitch Trim Override Control DOCUMENT NUMBER D.S. 469 D.S. 470 D.S. 472 D.S. 480 D.S. 473 D.S. 476 D.S. 479 D.S. 481 D.8. 482 D.S. 471 D.S. 474 D.S. 475 D.S. 478 D.S. 477

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6 May 1963

6 May 1963

9 May 1963

17 May 1963

13 May 1963

14 May 1963

Telemetry Test Point Tolerances

D.S. 483

D.S. 484

2-5142-2

Deviations to D2-7481

17 May 1963

DOCUMENT NUMBER	DOCUMENT TITLE	RELEASE DATE
D,S, 485	Results of Honeywell Six-Degree-of-Freedom Abort Study	17 May 1963
D.S. 486	Justification to Qualify Gyro Packages by Similarity	17 May 1963
D.S. 487	PFRT Testing Outline	17 May 1963
D.S. 488	Questions Asked by the X-20 Pilots During the Question and Answer Session of April 3, 1963	24 May 1963
D.S. 489	Side Stick Sensitivity Resistor Values	27 May 1963
D.S. 490	Pitch Axis Powered Air Launch Analog Studies	24 May 1963
D.S. 491	Abort Vehicle Digital Air Launch Study	17 June 1963
D.S. 492	Sidestick Sensitivity Resistor Values	31 May 1963
D.S. 493	Specification Requirements on Handling Qualities	-6 June 1963
D.S. 494	Difference Between and	7 June 1963
D.S. 495	M-H Tool and Instrument Numbering System	10 June 1963
D.S. 496	Tooling Review & Inventory	10 June 1963
D.S. 497	Results of X-20 Pitch Automatic Trim Evaluation	14 June 1963
D.S. 498	Updated Control System Functional Block Diagrams	18 June 1963
D.S. 499	Deviations to D2-7481	25 June 1963
B.S. 500	Reduced Quasi-Elastic Aerodynamic Data for Flight Conditions used in MH Evaluation Studies	25 June 1963
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MAJOR SUBCONTRACTOR MINNEAPCLIS-HONETWELL	JABER DOCUMENT TITLE	Boeing-Honeywell TCM Minutes, June 18 & 19, 1963	Transmittal of PR2546-24	Schedule Chart Revisions	Test Document Plan	Measurement of Hydraulic Oil Contamination	Witnessing of Acceptance Tests	Quarterly FCSE Released Drawings, Schematics and Specifications Report 2546-TR19A - P.O. Item No. 1.1.11	Discussion of Recommended Changes in the Pilot Selectable Fixed Gain (PSFG) Mode	June 18 & 19 TCM Minutes (Corrected)	Evaluation of Pitch & Lateral Quasi-Elastic Aerodynamic Data & Effect of Roll Auto-Traim	TR-9 - Telemetry Test Point Tolerances	FCSE Trim Rates and Mechanization	Addition of Demodulator-Filter to the Output Servos	Comments to Boeing Coord. Sheet No. FEP-565	Longitudinal Axis Performance Data, Landing Regime	
	CUMENT NUMBER	D.S. 501	D.S. 502	D.S. 503	D.S. 504	D.S. 505	D.S. 506	D.S. 507	D.S. 508	D.S. 509	D.S. 510	D.S. 511	D.S. 512	5.8. 513	D.S. 514	D.S. 515	

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6 August 1963

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23 July 1963

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6 August 1963

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RELEASE DATE

27 June 1963

10 July 1963

DOCUMENT NUMBER	DOCUMENT TITLE	RELEASE DATE
D.S. 516	Proliminary Card Tests Precedures for Doug6kg Servo Malfunction Detector	6 August 1963
D.S. 517	CSL Operation in General and Specifically During Abort	6 August 1963
D.S. 518	Effect of AC Ripple from Outputs of Demod-Amps on Auto Trim Swittehing Circuitary	1h August 1963
D.S. 519	Test Data Sheets for Qual & Acceptance Test Procedures	21 August 1963
D.S. 520	Contamination Control of Hydraulic Oil Used to Operate the Dyna Soar Lond Simulator	23 August 1963
D.S. 521	IGS-FCSE Fracing	23 August 1963
D.S. 522	Normal Acceleration Gain	29 August 1963
D.S. 523	Reaction Control Switching Amplifiers	10 September 1963
D.S. 52 ⁴	Implementation of Addition of Jumper Wires to FCSE for RCRS Interface	5 September 1963
D.S. 525	Glider Alone Air Launch	6 September 1963
D.S. 526	Position Servo Loop Demodulator-Amplifier Frequency Response	6 September 1963
D.S. 527	Honeywell Aero Report 2546-TR9, Revision I	6 September 1963
D.S. 528	Evaluation of Aeroelastic Effects on Abort Longitudinal Recoveries (Confidential)	6 September 1963
D.8. 529	Signal Control Assembly - Surface Pitch Engineering Specification	9 September 1963

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V- 8/62	DOCUMENT NUMBER	DOCUMENT TITLE	RELEASE DATE
·	D.S. 530	BTE Power Rating	10 September 1963
	D.S. 531	Sample Data Sheets	10 September 1963
	D.S. 532	Acceptance Test Results	10 September 1963
	D.S. 533	Acceptance Test Requirements, Aero Document R-ED 1382	13 September 1963
	D.S. 534	C9450AW1 Schematic Diagram Switching Amp. Regulator	17 September 1963
	D.S. 535	Honeywell Assumptions on CSL Mode	17 September 1963
	D.S. 536	Sidestick Sensitivity Resistor Values	17 September 1963
	D.S. 537	Addition of Servo Compensation Requirements to D2-7483-1	19 September 1963
	D.S. 538	Honeywell Aero Report 2546-TR9, Revision I	18 September 1963
	D.S. 539	SK 83436, Yaw Manual Flight Control System for YG368BlA	19 September 1963
	D.S. 540	PERT, P-9 Chart and Performance and Delivery Schedules	20 September 1963
	D.S. 541	Excitation of Primary Servo Transducers	23 September 1963
	D.S. 542	Switching Logic Technical Development Specification	23 September 1963
	D.S. 543	R/C Switching Amplifier System Level Test Points	23 September 1963
	D.S. 544	Telemetry Test Point Tolerances	25 September 1963
2-5142	D.S. 545	Boeing Failure Report #053074, dated August 22, 1963 Log Item, 458	3 October 1963
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	DOCUMENT TITLE	RELEASE DATE
D.S. 546	ER 843346 You Manual Plight Control System for YG368BlA	8 October 1963
D.S. 547	September Technical Coordination Meeting	11 October 1963
D.S. 548	Boeing/Honeywell TCM Minutes	15 October 1963
D.S. 549	Acceptance Test Procedures, Aero Document S-KD 1219	17 October 1963
മംടൂ. 55െ	Acceptance Test Procedures, Aero Focuments R-ED 1383, 84, 85	17 October 1963
D.S551	Quarterly NGE Released Drawings Schematics & Spec Report 25%6-11119B - P.O. Item 1.1.11	15 October 1963
D.S. 552	Test Data Sheets for Qual & Acceptance Test Procedures	20 October 1963
D.S. 553	Pilot's Compartment Environment	21 October 1963
D.S. 554	Comments to Minutes of Coordination Meeting	29 October 1963
D.S. 555	Firs Cooling Ges Bequirements - Interim	29 October 1963
D.S. 556	CML Curve Layout and Negative CML Limit	29 October 1963
D.S. 557	FUSE Computer Outline Drawing	30 October 1963
D.S. 558	Updating of Honeywell Aero Report 2546-7R15 (FECE Analysis Report)	30 October 1963
D.S. 559	Qual. Test Requirements Aero Document R-ED 1236	1 Nevember 1963
B. SS. 5600	FCSE Component Orientation	1 November 1963

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CUMENT NUMBER	DOCUMENT TITLE	RELEASE DATE
D.S. 561	Engineering Specifications	1 November 1963
D.S. 562	FCSE Computer Cooling Air	4 Nevember 1963
D.S. 563	Preliminary Review of Boeing Report "Guidance & Control Development Model Test Results"	4 Nevember 1963
D.S. 564	Comments on Boeing Abort Simulation	4 November 1963
D.S. 565	FCSE Computer Cooling Air Inlet Location	11 November 1963
D.S. 566	Honeywell Comment on Modified Tech Lab FCSE Operational Status	13 November 1963
D.S. 567	Preliminary Report on Lateral Piloted Handling Quality Problems (Confidential)	12 November 1963
D.S. 568	Accountable Tooling, Special Tooling Test Equipment	15 November 1963
D.S. 569	Acceptance Test Results	20 November 1963
D.S. 570	Comments on X-20 2050E Flight Conditions for Aeroservoelastic Analysis (u) (Confidential)	21 November 1963
D.S. 571	Sidestick Sensitivity Resistor Values	21 November 1963
D.S. 572	Transmittal of Analog Response Traces	22 November 1963
D.S. 573	FCSE Computer Outline Drawing	27 Nevember 1963
D.S. 574	Acceptance Test Regulrements Revision Aero Document R-ED 1382-1	27 November 1963

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27 November 1963 6 December 1963 11 December 1963 11 December 1963 12 December 1963 16 December 1963 10 January 1964 10 January 1964 RELEASE DATE Description of Honeywell Digital 6 of Freedom Simulation Evaluation of the Effect of Lateral Disturbance on Abort Recoveries System Level Test Points 472, 475, 526 & 529 Qualification Test Procedures Aero Documents R-ED 1237 and R-ED 1240 MAJOR SUBCONTRACTOR MINIERAPOLIES-HONEXMENT DOCUMENT TITLE Qualification Test Requirements Actuater Wiring Changes Prints 951658 & 951649 FCSE Reliability DOCUMENT NUMBER D.S. 575 D.S. 576 D.S. 578 D.S. 580 D.S. 579 D.S. 5777 D.S. 581 D.S. 582

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SUNDSTRAND CORPORATION DOCUMENTS (Accessory Power Unit) U3 4288 2000 REV. 8/62 2-8142-2 BREING NO. D2-81268
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RELEASE DATE SUNDSTRAND CORPORATION Revised Detailed Development Test Plan DOCUMENT TITLE Bed Temperature Distribution Charts Catalyst Testing (Loss and Life) ALTERNATOR (NESTINGRESHED GENERATOR) Catalyst Configuration Testing Hydrogen Seel Teat Thermal Proposite Touta Catalynt Activity Summery BAR CHARTS - PROCHAM SUMMARY COMBUSTOR - REACTION CHAMBER Catalyst Test Sumfaries Catalyst Pellet Picture Catalynt Screen Testing MAJOR SUBCONTRACTOR __ Catalyst Poisoning Whration Truta Combustor Testing Initial Tests Contestament 37 DER 62 and Revisions, 18 Reports DGR 5 thru 12, and 19 DGR 4 thru 12, and 19 DOCUMENT NUMBER DAR 13, 18, 22 DER 12, 17, 19 D68 12 thru 21 DEB 16, 17 DER 2, 10 DSR 10-13 DSR 3, 12 DER 19 DGH 22 DER 13 DER 2 2-5142-2

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RELEASE DATE Combustion Mfficiency Data & Test Error Analysis "Plashback" Effects on Catalyst Activity & Life SUNDSTRAND CORPORATION DOCUMENT TITLE APU Thermo Dynamic System Analysis Initial Temperature Control Testing Deposition of Palladium Catalyst Valve Sequencing Start Tests Flame Front Stabilization Study Qualification Combustor Layout Combustor Testing (Continued) Low Temperature Operation CONTROLLER (AUXILIARY POWER UNITS) Combustor Redeatgn & Layout Combustor Simulation Change Design Analysis Reports Torch Igniter Tests MAJOR SUBCONTRACTOR_ Breadboard Tests Package Tests 876 Controller Packaging 876A DSR 11, 12, 14, 15,20 DOCUMENT NUMBER 24 DER 63, 1st and 2nd Addendums DSR 17, 20, 23 DSR 6, 14, 15 DSR 22, 23 DSR 14, 15 DSR 11, 17 DSR 3, 14 DSR 6, 7 DSR 18 DSR 22 DSR 18 DSR 7 DSR 5 DSR 4 2-8142-2

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RELEASE DATE SUNDSTRAND CORPORATION Transistor Lead Stress and Failure DOCUMENT TITLE "Unexplained" Shutdowns Design Analysis Reports Package Photographs Package Photographs Package Photographs MAJOR SUBCONTRACTOR Design Concepts Design Changes Test Summaries Test Summaries Design Changes Control System Control System 876A (Contimed) 876c and 876c1 Test Data Test Data General 876B1 DOCUMENT NUMBER 31 DER 62, Vol. II 31 DER 62, Vol. DSR 16, 17, 20 DSR 16, 20, 21 and Addendum DSR 11, DSR 16, 19 DER 16, 18 DER 16, 20 DSR 16, 20 DER 16 DSR 17 DSR 23 DSR 23 DSR 22

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RELEASE DATE Dealgn Analysis of Dyna-Soar Model 8765 Arv =----- Individualing System & Cold Plate SUNDSTRAND CORPORATION Review of Gearbox & Lubrication System DOCUMENT TITLE Blocked Lubrication System Tests Hydrogen Relief Valve Testing Lubrication System Evaluation Accumulator Disphragu Test Starting Torque Load Test Design Analysis Reports Mounting Link Testing MAJOR SUBCONTRACTOR __ High Speed Seal Test Heat Rejection Tests Servicing of Gearbox Summary of Test Time Design Requirements High Speed Bearings Attitude Test Date Endurance Test Case Pressure GEARBOX DSR 4, 5, 11, 12, 19 and 20 23-DER-62, Revs. A&B DOCUMENT NUMBER DSR 5, 6, 9 thru 15, 17, 18 DSR 10, 11, 12 DSR 16, 18, 19 DSR 20, 23 DSR 19. DSR 13 DSR 10 DSR 19 DSR 13 DSR 20 DSR 22 DSR 13 DSR 11 DSR 7

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48-DER-62 Bearing Design Analysis Reports (Continued) Pril-DER-61 Bearing Design Study Pril-DER-63 DSR 11 DSR 11 DSR 11 DSR 11, 14, 15 Bearing Edge Analysis DSR 11, 17 Bearing Edge Analysis DSR 12 DSR 13 DSR 14, 15 DSR 15 DSR 16 DSR 17 Configuration "C" Performance (Off Design) Configuration "C" Performance (Off Design) Configuration "C" Performance (Off Design) DSR 18 Configuration "C" Performance (Off Design) DSR 18 DSR 19 DSR 19 DSR 18 DSR 19 Configuration "C" Performance (Off Design) DSR 18 DSR 18 DSR 19 DSR 10, 17 Dynamic Bealing Unit Pletures DSR 10, 17 Dynamic Bealing Stidy BSR 10, 13, 18 High Speed Bearings BSR 10, 13, 18 High Speed Bearings BSR 10, 13, 18 High Speed Bearings
R-62 R-61 R-63 HIGH SPE 1, 14, 15 R (Appendix) Bue 1, 17 Con 1, 17 Con 1, 15
R-61 HIGH SPE HIGH SPE 1, 14, 15 Res 1, 17 Cont 1, 17 Cont 1, 17 Cont 1, 15 Cont 1,
HIGH SPE HIGH SPE HIGH SPE 1, 14, 15 8 (Appendix) Bue 1, 17 Confident 1, 17 Confident 1, 15
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RELEASE DATE S/N 001 Model 876 Assembly & Cheekout, Freesdures, Pictures, and Testing Wheel Vibration Analysis (Resonant Frequencies) SUNDSTRAND CORPORATION 8/N GOt and S/N GO5 Pictures (After Failure) HIGH SPEED ASSESSMENT (TURBING) - (Continued) DOCUMENT TITLE S/N 001 Model 876 Failure Analysis SHC and SOC Test Data (Initial) Material Compatibility Tests Model 876A S/N 003 Plotures Wibration Evaluation Tests Titanium Wheel Evaluation Selfcontainment Analysis Turbine Blade Frequency Design Analysis Reports Rene' 41 Investigation Nozzle Cascade Tests MAJOR SUBCONTRACTOR Failure Analysis Turbine Analysis Wheel Stresses DGR 2 thru 6, 10 thru 17 DOCUMENT NUMBER 24-DER-62, Revs. A. B. C DER 18 (Appendix) DSR 10, 11, 17 DSR 6, 8, 9 DSR 14, 15 43-DER-63 D5R 20 11 856 Den 8 DSR 5 DSR 11 DSR 6 DSR 8 DSR 5 DSR 7 2-5142-2

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RELEASE DATE Summary & Results of X-20 Ard Subine Slade Redesign Effort Metallurgian Engineering Report for Material Selection, Metallurgical Investigation & Analysis of Turbine Wheel Failure, Dyna-Sonr 876 APU S/N 001 Metallurgical Engineering Report of Rene' 41 Integral Metallurgical Engineering Report of Name' 41 Integral Shaft Turbine Wheel Forging Metallurgical Engineering Report, Literature Study of Hydrogen Embrittlement of Titanium The Effect of Hydrogen on Mechanical Properties of Resonant Frequency of Vibration for Complex Turbins Metallurgical Investigation of Model 871 and 871A Analysis of Failure of Turbine Wheel in Dyna-Sear Report on the Development of Procedures for Electropolishing High Mickel Alloy Purbine Blades Powered Psokages with Environmental Excitation K-20 Turbine Wheel Controlled Bucket on SUNDAYS AND CORPORATION DOCUMENT TITLE Design Analysis Reports (Continued) X-20 Turbine Failure Analysis APU Model 876 APU S/N 001 B12 OVCA Titenium Alloy Purbine Wheel Failures MAJOR SUBCONTRACTOR 876 Turbins Wheel S DOCUMENT NUMBER 22-059-62 44-DEE-61 43-DIR-61 11-DER-62 12-DER-62 21-058-62 62-DER-63 15-15E-61 26-pm-63 26-0四-63 48-DWR-63 90-DEE-63 5-DER-62 2-6142-2

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DOCUMENT NUMBER	DOCUMENT TITLE	RELEASE DATE
	MAGNETIC PICKUP	
DSR 17	Layout	
DSR 22	Life Test Completed	
DSR 16	Pictures	12
DSR 17	Test Data	
	Design Analysis Reports	
31-DER-62, Vol. III, Revs. A, B, C	Control System	
DSR 23	MECHANICAL INTEGRATION STUDY	
DSR 16 thru 22	PERFORMANCE CHARTS	
	Performance Reports (SHC and SOC)	the company was referring a majority of the contract of the co
952-381-1	1st Report	
952-381-2	2nd Report	
952-381-3	Development Summary Report	
	PREHEATER	
DER 18	Fabrication Problems	
18 18	Layout	

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RELEASE DATE SUNDSTRAND CORPORATION APU Thermo Dynamic System Analysis DOCUMENT TITLE Breadboard Pressure Control Testing Acceptance Testing of P38C2 Pumps Discrepancy Report Solutions Qualification Test Commany Design Analysis Reports Discrepancy Reporting Predicted Performance Accumulated Test Time Dry Shaft Seal Tests Proof Pressure Tests MAJOR SUBCONTRACTOR Redesign Initiation Response Time Tests Horsepower Losses Development Tests PREHEATER (Continued) Test Summary PUMP - HYDRAULIC Test Data DOCUMENT NUMBER DSR 14,15,17,19, 20 24-DER-63, 1st and 2nd Addendums DSR 16, 17, 18 DSR 14, 15, 16 DSR 1, 2, 3 DSR 1, 2, 7 DSR 10, 11 DSR 1, 2 DSR 23 DSR 16 DSR 16 DSR 7 DSR 13 DSR 4 DSR 7 DSR 9 1-5142-2

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	FUMP - HYDRAULIC (Continued)	
DER 8		
1	Tests to Prove Design Capabilities of PyScl Pumps	
EPAD-866-14698	Qualification Test Reports	
	Phase I and II	
	Phase III and IV	
	Plues V	
	Phase VI and VII	
	RESERVATOR	
DSR 18, 19, 20, 23	Containment Tests	
DSR 18	Detonation Test	
DSR 13	Fin Performance Study	
DSR 16	Performance Map	
DSR 17	Pictures (8 Tube - 2 Pass)	
DSR 9	Pressure Drop Calculations	
DSR 12	Regenerator Selection Study	
	Testing	
DSR 8	Initial	
DSR 9, 10		-

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RELEASE DATE A Method for Chemical Cleaning of the X-20 Aluminum Heat Exchanger Dual Temperature Probe Control Loop Analysis and Test Analysis of Turbins Wheel (Low Temperature Shock) SUNDSTRAND CORPORATION Compensation of the Temperature Control Loops Control Loop Availables (Speed a a sperature) Change to Turbine Int. "samperature Contact DOCUMENT ITTE APU Thermodynamic System Analysis Combustor-Controller Subsystems Test Combustor "Flashback" Investigation 8 Tube - 2 Pass and Bypass Loop Standard Thompson Regenerator Component Accumulative Run Time Gearbox Vibration Evaluation Design Analysis Reports MAJOR SUBCONTRACTOR Testing (Continued) STRUM ANALTRIS AND TEXT 5 Tube - 2 Pass Vibration Analysis DSR 12, 14, 15 and 17 DOCUMENT NUMBER 24-DER-63, lst & 2nd Addendums DSR 16, 17, 18, 21 DSR 17, 18, 20 55-DER-63 DSR 20 DSR 23 DSR 21 DSR 22 DSR 8 DSR 9 DSR 19 DSR 9 DSR 7

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RELEASE DATE Test Problems Remaining Upon Receipt of Stop Work Order SUNDSTRAND CORPORATION IBM Program Results (Altitude & See Level) Panoramic Analyzor, Wibration Spectrum Date Development Problems (System Analysis) IBM Turbine Performance Program Remults APU Subsystem - ECS Simulator Testing DOCUMENT TITLE Sen Level Analog Computer Results Pressure Drop Investigation Results Initial System Testing (871 APU) SYSTEM AMALISIS AND TEST (Continued) Off Dealgn Program Results Specific Fuel Consumption Data Initial 876 AFF Teating Initial 876A Testing Programmed Start Tests Predicted Performance MAJOR SUBCONTRACTOR System Test Results S/N 003 Run Data S/N cole Run Date 5/N CO5 Run Data Problem Areas DOCUMENT NUMBER DSR 12 thru 20, and 23 DSR 14, 15, 18 DSR 10, 11, 12 DSR 12 thru 20 DSR 13 thru 17 DER 14, 15 DER 16, 18 DSR 16, 18 DSR 11, 13 DSR 18, 19 DSR 18 DER 17 DSR 17 DSR 11 DSR 23 DSR 5 DSR 4 2-8142-2

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RELEASE DATE SUNDSTRAND CORPORATION Qualification S/N 001 Acceptance Testing DOCUMENT TITLE Turbine Performance Analysis Reports Summary of APU System Test Remults 2nd Report, September 27, 1963 Final Report, November 4, 1963 System Test Results (Continued) 1st Repor, August 1, 1963 130 Volt Winding Inclusion Change to Three-Phase Tach 50 Watt - 5 Winding Tests Design Analysis Reports S/W 006 Pun Bata MAJOR SUBCONTRACTOR S/N 007 Run Data S/N COS Run Deta S/N 009 Fun Data Control System Breadboard Tests TACHOMETER GENERATOR 75 Watt Tests DOCUMEN NUMBER 31-DER-62, Vol. I & Addendum DSR 18 thru 21 DSR 19, 20, 23 DSR 20, 21, 23 DSR 21, 23 952-381-1 952-381-2 952-381-3 DSR 22 DSR 23 DSR 19 DSR 18 DSR 4 DSR 3 DER 4 2-8142-2

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		TACHOMETER GENERATOR (Continued)		
	DSR 22	Top-Stick Failures		
	DSR 22	Completion of Life Test		
	•	Design Analysis Reports		
	31-DER-62, Vol. III, Revs. A, B, C	Control System		
		TEMPERATURE PROBES (ROSEMOUNT & WINSCO)	٠	
	DSR 20 thru 23	Failures Occurring During Test Response Test (Rosemount 1764R)	:	
	DSR 23	O	,	
		Design Analysis Reports		
	31-DER-62, Vol. III, Revs. A, B, C	Control System		
	DSR 23	TEST SETS A, B, AND C		-,
		Design Analysis Reports		
	31-DER-62, Vol. III, Rev. C	Control System		
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	VALVE HODULIES - PARKED	
DSR 17, 18, 19	Sackup Valve System Tests (Mechanically Linked Serves)	
DSR 5	Breadboard Valve and Controller Tenta (876)	
DSR 10	Bypane Valve Stability	
DSR 7, 9	Frequency Response Tests	
DSR 17, 18	Hydrogen Referenced Oxygen Regulator	
DSR 19		
DSR 20, 21		
DSR 22, 23		
DSR 18	Low Temperature Shutoff Valve Tests	
DSR 17	Modified Servo Valve Flow Envelopes	
DSR 1. 4. 23	Wiler Disphrage Tests	**
DSR 19	Wlar Gastet Seal	
DSR 19, 21	Wilst Displrage Design Date	
DSR 10	Oxygen Regulator Temperature Compensation	
DSR 17	Oxygen Serve Poppet Assembly Study	
DSR 21	Gxygen Shutoff Valve Endurance Test	
DSR 9	Parker Deviation Requests	
DSR 16, 17, 18	Prototype "B" Modula Tests	
DSR 18	Parker Reliability Analysis Susmary	
DSR 17, 20	" "war Seal Study Results	

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RELEASE DATE Compilation of Physical and Chemical Properties of GG-130 Synthetic Lucatorant A Design Analysis of the Parker Valve System for Dyna-Soar Model 876 APU Preliminary Organic Material Study for Rea-Soar SUNDSTRAND CORPORATION Shutoff Valve Coil Resistance Vs. Temperature Valve Mounting Bracket Stress Analysis Cold Plate Test Data (ED 5899, Testing) DOCUMENT TITLE Torque Motor Thermal Null Shifting Parker Design Analysis Reports Shutoff Valve Lip Seal Stresses VALVE MODULES - PARKER (Continued) Servo Valve Pressure Gains Qualification Test Results Design Analysis Reports Design Analysis Reports Valve Module Pictures MAJOR SUBCONTRACTOR Control System MISCELLANEOUS CONTENT DOCUMENT NUMBER 31-DER-62, Vol. III, Revs. A, B, C S62R1899, Reve DSR 13, 23 DSR 11, 20 27-088-62 DSR 2, 11 29-DER-62 42-DER-61 DSR 10 DSR 21 DSR 20 DSR 10 DSR 23 2-8142-2 U3 4288 2000 REV. 8/62

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THICKOL CHEMICAL CORPORATION DOCUMENTS 8.0 (Acceleration Rocket Motor) 2-5142-2 U3 4288 2000 REV. 8/62 D2-81268 REV SYM. SECT. 8.0 PAGE 289

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	DS-211-2	Mathematica Report, Regression Acceptance Plans	1-19-62
	DS-211-3	Rocket Motor Firing Data used in Mathematica Statistical Analyses	1-19-62
	DS-212	Training Recommendations	3-9-62
	DS-213	Description and Cost of Special Handling and Test Tooling Dyna-Soar Acceleration Rocket Motor	12-6-61
	DS-216	Maintainability Data	2-23-62
-	DS-217	Cost Reduction Plan	9-3-63
	DS-221	Cost Savings Plan	9-3-63
	DS-512	Test No. DN-2	*
	DS-513	Test No. DI-175	· · · · · · · · · · · · · · · · · · ·
	DS-514	Test No. DN-1	l =
	DS-515	Test No. DN-3	,
	DS-516	Test No. DN-11	
,	DS-517	Test No. DI-176	
	DS-518	Test No. DN-4	
	DS-519	Test No. D.1.1	
2	DS-520	Test No. DN-5	
-8142-2	DS-521B	Report of Component Performance and Component Environmental & Load Factor Tests of Propelland, Liner, Adhesive & insulation ma	1-24-64 terials

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I	DS-556	Test No. DN-19	
	DS-557	Test No. D. 0.1	
	DS-558	Test No. D. 2.9	*
	DS-559	Test No. D. 2.12	
	14299	Development Vibration Testing of Thiokol TE-400 Motor Assembly S/N 1031 (Wyle Lab. Reports)	Rev: 8-14-63
	14299-1	Live Motor Vibration Testing of TE-400 Rocket Motor Assembly Test D. 2.15, Assembly S/N 1023 (Wyle Lab. Reports)	Rev: 8-14-63
	14299-2	Live Motor Vibration, Testing TE-400 Motor Assembly, Test D: 3. 2, Assembly S/N 1037 (Wyle Lab. Reports)	Rev: 8-14-63
	DSO/2296	Technical Service Recommendation	3-9-62
	DSO/4223	Thermal Gradient Test to Induce Cracking in Smallest Nozzle Exit Cone Graphite Ring	10-29-62
···············	DSO/4324	Structural Testing of Acceleration Rocket Motor Fixed Nozzle Graphite Insulation	11-12-62
	DSO/4373	Evaluation of the Relative Thermal Degradation of Candidate Materials for the Expansion Ring in the TE-400 Acceleration Rocket Motor Nozzle Exit Cone	11-19-62
	DSO/4374	Compressibility Determination for Candidate Thermal Expansion Gasket Material, Armstron DK-149	11-19-62
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l	EI+8 A	Instructions for Calibration and Adjustment of Boeing-Supplied (Bendix) Actuators, XM-92 ARM	4-29-63
	EI-9	Test Console UT-10B for Testing Dyna Soar Igniter Safe and Arm Mechanism 506-0002, S/N 0016 and UP	Rev: 8-12-63
	EI-15	Optical Alignment and Calibration of TE-400 (XM-92) Thrust Vector Control Nozzles	8-28-63
	EI-16	Weight and Center of Gravity Determination for the TE-400 (XM-92) Rocket Motor	10-21-63
	ES-PR-21F	Standard for Propellant, Rocket, TP-H-1050, in the TE-400 and TE-401 Rocket Motors	1-31-64
	ES-PR-26A	Standard for Adhesive, Polysulfide-Epoxy, Type TA-L-308 used in TE-400 and TE-401 Rocket Motors	5-20-63
	ES-PR-27A	Standard for Adhesive, Polyamide-Epoxy, Type TA-D-300 used in TE-400 and TE-401 Rocket Motors	5-20-63
	ES-PR-28B	Standard for Adhesive, Polysulfide-Epoxy, Type TA-L-311 used in TE-400 Rocket Motors	8-2-63
	ES-PR-29A	Standard for Adhesive, Polysulfide, Type TA-L-309 used in TE-400 Rocket Motors	5-20.63
	ES-PR-31A	Standard for Adhesive, Polysulfide-Epoxy, Type TA-L-314 used in TE-400 Rocket Motors	5-20-63
2.	ES-PR-32A	Standard for Insulation, Polysulfide-Epoxy, Type TI-D-303 used in TE-400 Rocket Motors	5-20-63
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ES-PR-33A	Standard for Adhesive, Polysulfide-Epoxy, Type TA-D-303 used in TE-400 Rocket Motors	5-20-63
ES-PR-36	Standard for Liner, Polybutadiene-Acrylic Acid, Type TL-H-304 Carboxyl Terminated used in TE-400 and TE-401 Rocket Motors	8-2-63
ES-PR-37	Standard for Slivers, Phenolic-Epoxy, Type TI-D-304 used in TE-400 Rocket Motors	8-8-63
ESP-7	Specification for Adhesive, TA-L-314	4-18-63
ESP-8	Specification for Adhesive, TA-D-300	4-18-63
ESP-9	Specification for Adhesive, TA-D-303	4-18-63
ESP-10	Specification for Insulation, TI-D-303	4-18-63
ESP-12	Specification for Adhesive, TA-L-308	4-18-63
ESP-13	Specification for Adhesive, TA-L-309	4-18-63
ESP-14	Specification for Adhesive, TA-L-311	4-18-63
ESP-15	Specification for Propellant, Solid, Rocket TP-H-1050	7-16-63
ESP-16	Slivers, Phenolic-Epoxy, Types TI-D-300 and TI-D-304	8-2-63
ESP-18	Specification for Liner Composition TL-H-304	7-12-63
ME 2001 Amend. #2	Forged Tungsten	11-23 63
NE 1001	Graphite, Extruded, High Density	11-26-63

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RER-281	Internal Ballistic Report, TE-400	2-12-63
(DS-220)	Failure Analysis Report of Hi-Shear Squibs Serial No. 04534 and 04272 during Oualification Testing of Hi-Shear October 19 and 21 1963	11-22-63
RER-347	Dyna Soar Graphite Nozzle Inlet Design Evaluation	12-30-63
Research Summary Report 17-61	Thermodynamic Properties of Dyna Soar Propellant	11-1-61
SE-133, Amend #2	Welding, Intert Gas, Tungsten Arc and Inert Gas Arc with Consumable Electrode	1-25-63
SE-134, Amend #1	Heat Treatment of Steel, Oualifrcation of Equipment and Procedures	4.30.63
SE-136	Material Specification Steel, Alloy, Special High Strength	8-9-61
SE-137, Amend #1	TE-400 Acceleration Rocket Motor Gase and Aft Closure	7-24-63
SE-138, Amend #1	Finish, Rocket Motor Aft Closure and Case Metal Parts Assemblies, Protective Coating, Requirements for	Rev: 5-9-63
SE-142, Amend #1	Heat Treatment of SE-136 Steel	10-11-61
SE-143	Hydrostatic Pressure Testing of the TE-400 Acceleration Rocket Motor Case and Aft Closure Assembly	Rev: 7-24-62
SE-146, Amend #1	Containers, Shipping, Rocket Motor, Steel, Reusable	Rev: 10-16-62
SE-147, Amend #2	TE-400 (XM-92) Igniter Safe and Arm Assembly Rev:	1-10-64

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I	SE-155, Amend #2	Insulation, Reinforced, Molded Phenolic	8-14-63
	SE-156, Amend #1	Insulation, Fiber glass, Reinforced, Molded Phenolic	6-18-62
	SE-157, Amend #2	Material Specification Buna-N Rubber Insulation	Rev: 10-18-63
	SE-159, Amend #2	Design Requirements for TE-400 Thrust Vector Control and Fixed Nozzles	10-11-61
	SE-160	TE-400 Thrust Vector Control and Fixed Nozzles, Manufacturing Requirements	Rev: 10-23-63
	SE-162	Arresting Device, Design and Fabrication General Requirements for	10-2-61
	SE-165	Servo Actuator, Electro-Hydraulic, General Requirements for	10-13-61
	SE-166	Hydraulic Power Source, General Requirements for	12-1-61
	SE-167	Manufacture and Engineering Evaluation Testing, 1 Amp, L Watt No-Fire Squib, TE-400 (XM-92) Rocket Motor	Rev: 11-19-63
	SE-168, Amend #2	Multicomponent Thrust Stand	3-21-62
	SE-169	Acoustic Noise Test System	10-10-61
	SE-170, Amend #2	Horizontal Axial Thrust Stand	3-21-62
	SE-172,	O-Rings, Critical, Procurement of	Rev: 6-19-63
	SE-178	Calibration and Certification of Measuring and Testing Equipment	1-5-62
2-5142-	SE-187	Asbestos-Base Phenolic Resin Molding Compound (R/M Style 150-RPD)	1-23-62

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2	SE-191, Amend #1	Squib, 1 Watt No-Fire TE-400 (XM-92) Rocket Motor	10-18-62
	SE-200	Thrust Vector Command Signal and Monitoring Unit	8-7-62
	TR-400-1B Amend #2	Vibration Test, TE-400 Acceleration Rocket Motor	2-8-63 5-9-63
	TR-400-9	Rough Road Test, TE-400 (XM-92) Acceleration Rocket Motor	11-9-62
	TR-400-10	~,	7-2-62
	TR-400-11	Assembly, TE-400 Acceleration Kocket Motor Vibration Characterization Tests, Thrust Vector Control Nozzle	7-16-62
	TR-400-13A	TE-400 Acceleration Rocket Motor Vibration Test, (Natural Frequency and Moment of Inertial Determination) TE-400 (XM-92) Thrust Vector Control Nozzle	11-18-63
A CONTRACTOR OF THE PARTY OF TH	TR-400-14	Sand and Dust Test, TE-400 (XM-92), Thrust Vector Control Nozzle	1-4-63
	TR-400-15	Salt Spray Test, TE-400 (XM-92), Thrust Vector Control Nozzle	1-4-63
1	TR-400-19	Salt Spray Test, TE-400 Aft Closure Assembly	3-11-63
	TR-400-20	Sand and Dust Test, TE-400 Aft Closure Assembly	3-1-63
	TR-401-12, Amend	2 Vibration Characterization Test, TE-401 Ignition System	4-1-63
	TR-401-16	Sand and Dust Test, TE-401, Ignition System	1-4-63
	TR-401-17	Salt Spray Test, TE-401, Ignition System	1-4-63
2-	TR-401-22	Vibration Test, TE-401, Safe-and-Arm Device	6-10-63
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THOMPSON-RAMO-WOOLDRIDGE DOCUMENTS (Reaction Control System) U3 4288 2000 REV. 8/62 D2-81268 REV SYM_

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RELEASE DATE February 1962 February 1962 December 1961 December 1961 January 1962 January 1962 October 1961 March 1962 March 1962 March 1962 March 1962 March 1962 March 1962 June 1961 June 1961. THOMPSON-RAMO-WOOLDIRIDGE Quarterly Report - Electrical Power Requirements Final Design Report - Supercritical Propellants DOCUMENT TITLE Wide Range Analog Computer Simulation Final Development Test Status Reports Failure Mode and Effort Analysis Mean-Time Between Failure Data Simulation of Pneumatic Power Heat Transfer Analysis Study Weight and Balance Report Analog Simulation Data MAJOR SUBCONTRACTOR. Purging Investigation Final Progress Report Maintenance Analysis Maintainability Data Acceptance Test Plan DOCUMENT NUMBER TM-2973-93 TM-2990-93 ER-4444-10 IM-2959-93 ER-14694-2 ER-4700-4 ER-4690 ER-4705 ER-4744 XR-4770 ER-4832 REL-82

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Material Recommendations

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February 19, 1962 RELEASE DATE September 1961 November 1961 November 1961 December 1961 October 1961 October 1961 January 1962 August 1961 July 1961 THOMPSON-RAMO-WOOLDRIDGE DOCUMENT TITLE Design Development Test Plan Heat Loss from Gas Generator Cavitating Venturi Liquid O2 Weight and Balance Analysis Cavitating Venturi Hydrogen MAJOR SUBCONTRACTOR ... Qualification Test Plan Failure Rate Analysis Cavitating Venturis AGE Recommendations Thrust Mozzles DOCUMENT NUMBER TM-3062-93 TM-2995-93 TM-3000-93 TM-3092-93 TM-3132-93 IM-3135-93 TM-3170-93 TM-3193-93 TM-3245-93 TM-3242-93

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WESTINGHOUSE ELECTRIC CORPORATION DOCUMENTS 10.0 (Generator and Controls) U3 4288 2000 REV. 8/62 NO. **D2-81268** SECT. **10.0** PAGE **305** REV SYM_

July 1963 (Lest Nepotes) James 10, 1962 RELEASE DATE February 1962 Jamery 1962 MAJOR SUBCONTRACTOR WESTINGHOUSE ELECTRIC CORPORATION Namifacturing Process Specifications - Voltage Sagulator Control of Manufacturing Processes - Voltage Regulator Tabulated Summary of Stresses - Voltage Segulator Manufacturing Process Specifications - Generator Packaging Selection Analysis - Voltage Regulator Control of Manufacturing Processes - Generator Reliability Reports for the Voltage Regulator Tabulated Summary of Stresses - Generator Packnging Selection Analysis - Generator DOCUMENT TITLE Weight and Balance Reports (Monthly) Stress Analysis - Voltage Regulator Technical Service Recommendations Stress Analysis - Generator Training Recommendations Maintenance Analysis DOCUMENT NUMBER 2-5142-2 U3 4288 2000 REV. 8/62

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Nebruary 25, 1963 December 26, 1963 December 26, 1963 November 19, 1963 RELEASE DATE August 27, 1963 September 1962 December 1963 September 1962 November 1963 June 17, 1963 April 4, 1963 June 20, 1963 June 1, 1962 January 1963 May 1963 WESTINGHOUSE ELECTRIC CORPORATION Verification Test Report for the Dyna-Soar 12 KVA Generator List of Special Tools and Test Equipment Used on Generator Preliminary Qualification Test Data for Voltage Regulator (Efficiency Test) The X-20 (Dyna-Soar) Glider Electric Power System (Paper) X-20 (Dyna-Sour) Gilder Pre-prototype Electrical System Verification Test Seport Safety Engineering of Electric Power Systems (Paper) Minal Qualification Test Reports and Current Trans. Qualification Test Status Reports (Numbers 1 - 14) Preliminary Qualification Test Esta for Generator (Efficiency Test) DOCUMENT TITLE Reliability Analysis for P. C. Board Reliability Analysis for Generator Reliability Demonstration Plan Reliability Program Plan MAJOR SUBCONTRACTOR __ Technical Support Data DOCUMENT NUMBER 2-8142-2

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WESTITIGHOUSE ELECTRIC CORPORATION Design Specification for Electrical Apparatus Nest Set Manufacturing Test for Generator Current Transformer Qualification Test Procedure - Current Transformer Qualification Test Procedure - Generator Assembly Qualification Test Procedure - Voltage Regulator Acceptance Test Procedure - Current Transformer Qualification Test Procedure - Circuit Bresker Qualification Test Procedure - Control Panel Acceptance Test Procedure - Circuit Breaker DOCUMENT TITLE Qualification Test Procedure - Generator Monthly Progress and Technical Reports Acceptance Test Procedure - Generator Design Development Test Plan MAJOR SUBCONTRACTOR __ AGE Recommendations DOCUMENT NUMBER TS 673850 TS 673812 TS 673833 TE 673843 D-709365 M2-039A B2-041B B2-040A B2-042 B2-043 M2-038 2093 1368

October 7, 1963

May 8, 1963

April 30, 1963

May 21, 1963

May 17, 1963

July 1961

May 1962

RELEASE DATE

September 1961 -December 1963

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Acceptance Test Procedure - Test Control Panel

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Acceptance Test Procedure - Voltage Regulator

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